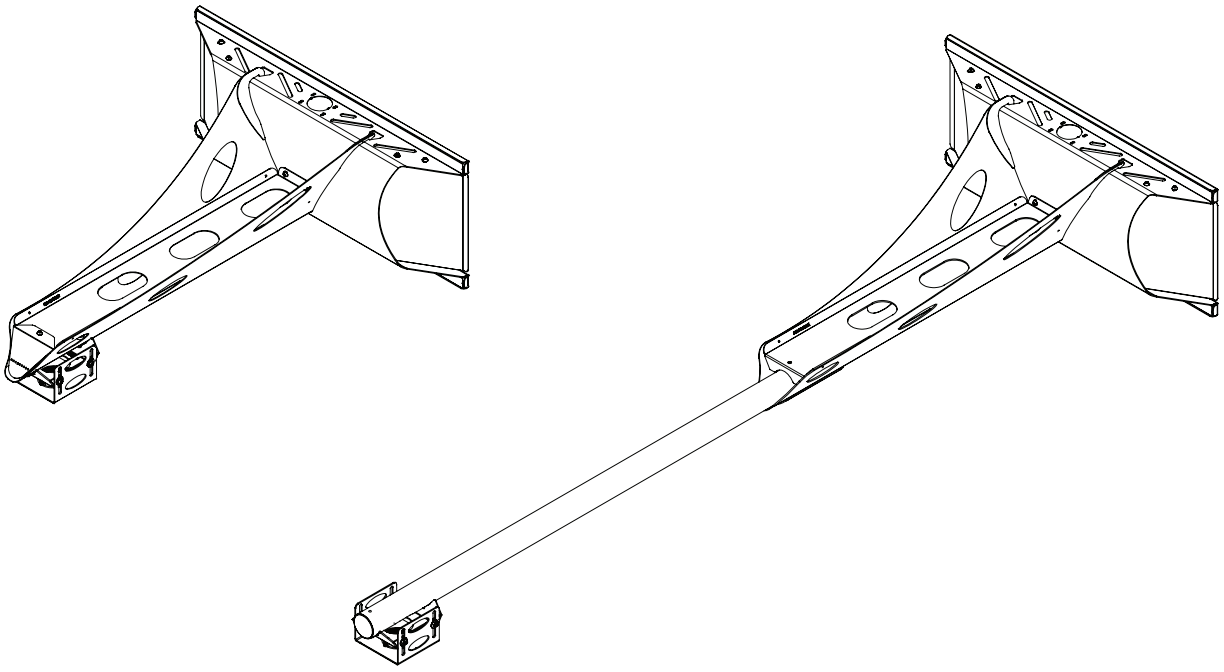
PREMIER MOUNTS®
CREATING POSITIVE CUSTOMER EXPERIENCES

INSTALLATION INSTRUCTIONS



Universal Short Throw Projector Wall Mount

Model: UNI/UNIE

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9533-019-011-01

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Weight Capacity

Maximum projector weight: 50 lb.

THE WALL STRUCTURE MUST BE CAPABLE OF HOLDING FIVE (5) TIMES THE WEIGHT OF THE PROJECTOR. IF NOT, THEN THE WALL STRUCTURE MUST BE REINFORCED.

Warning Statements

PRIOR TO THE INSTALLATION OF THIS PRODUCT, THE INSTALLATION INSTRUCTIONS SHOULD BE READ AND COMPLETELY UNDERSTOOD. THE INSTALLATION INSTRUCTIONS MUST BE READ TO PREVENT PERSONAL INJURY AND PROPERTY DAMAGE. KEEP THESE INSTALLATION INSTRUCTIONS IN AN EASILY ACCESSIBLE LOCATION FOR FUTURE REFERENCE.

PREMIER MOUNTS DOES NOT WARRANT AGAINST DAMAGE CAUSED BY THE USE OF ANY PREMIER MOUNTS PRODUCT FOR PURPOSES OTHER THAN THOSE FOR WHICH IT WAS DESIGNED OR DAMAGE CAUSED BY UNAUTHORIZED ATTACHMENTS OR MODIFICATIONS, AND IS NOT RESPONSIBLE FOR ANY DAMAGES, CLAIMS, DEMANDS, SUITS, ACTIONS OR CAUSES OF ACTION OF WHATEVER KIND RESULTING FROM, ARISING OUT OF OR IN ANY MANNER RELATING TO ANY SUCH USE, ATTACHMENTS OR MODIFICATIONS.

SAFETY MEASURES MUST BE PRACTICED AT ALL TIMES DURING THE ASSEMBLY OF THIS PRODUCT. USE PROPER SAFETY GEAR AND TOOLS FOR THE ASSEMBLY PROCEDURE TO PREVENT PERSONAL INJURY.

At least two qualified people should perform the assembly procedure. Injury and/or damage can result from dropping or mishandling the projector.

If mounting to studs, make sure that the mounting screws are anchored into the center of the studs. Use of an edge-to-edge stud finder is recommended.

Be aware of the mounting environment. If drilling and/or cutting into the mounting surface, always make sure that there are no electrical wires in wall. Cutting/drilling into an electrical line may cause serious injury.

Make sure there are no water lines inside the wall where the mount is to be located. Cutting/drilling into a water line may cause severe water damage to the mounting surface.

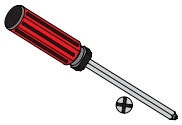
This product is intended for indoor use only. Use of this product outdoors could lead to product failure and personal injury.

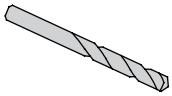
Do not install near sources of high heat. Do not install on a structure that is prone to vibration, movement or chance of impact

Contact Premier Mounts with any questions
(800) 368-9700
techsupport@mounts.com

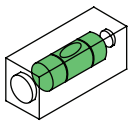
Installation Tools

The following tools may be required depending upon your particular installation. They are not included.

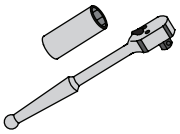

Phillips Screwdriver


¼″ Drill Bit

Electronic Stud Finder


Level

½″ Socket and Socket Wrench

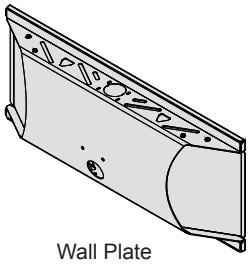


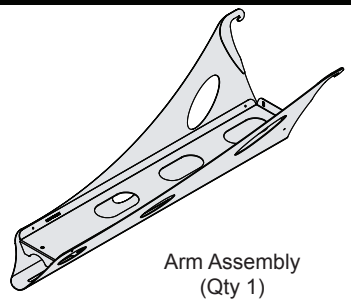
Drill

Parts List

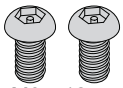
Make sure your Premier Mounts product has the following hardware and components before beginning installation. If there are parts missing and/or damaged, stop the installation and call Premier Mounts at (800) 368-9700.

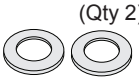
UNI/UNIE Hardware


Wall Plate (Qty 1)

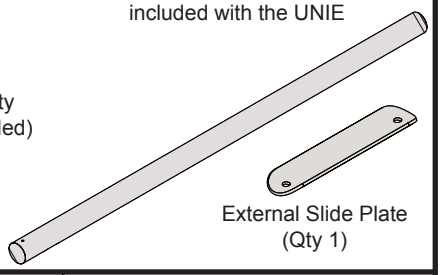

Arm Assembly (Qty 1)

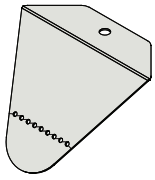
Extension Hardware Pack

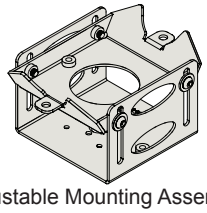

M6 x 12mm Security Screws (pre-assembled) (Qty 2)

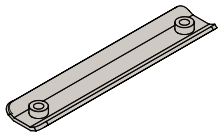

M6 Flat Washer (Qty 2)

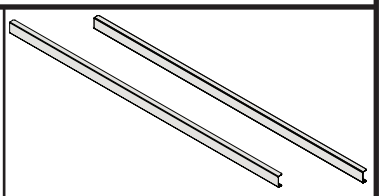
Extension Arm - Optional (Qty 1) included with the UNIE

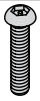

External Slide Plate (Qty 1)


End Cover (Qty 1)


Adjustable Mounting Assembly - Pre-Assembled (Qty 1)

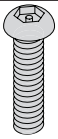

Internal Slide Plate (Qty 1)


Back Plate Covers (Qty 2)



M4 x 10mm Security Screws for FTP Install (Qty 4) - or - M6 x 12mm Security Screws for PDS Install (Qty 2)

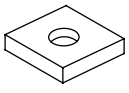
M5 x 8mm Security Screws (Qty 7)


M6 x 16mm Security Screws (Qty 2)

5⁄16″ x 3″ Lag Bolts (Qty 4)

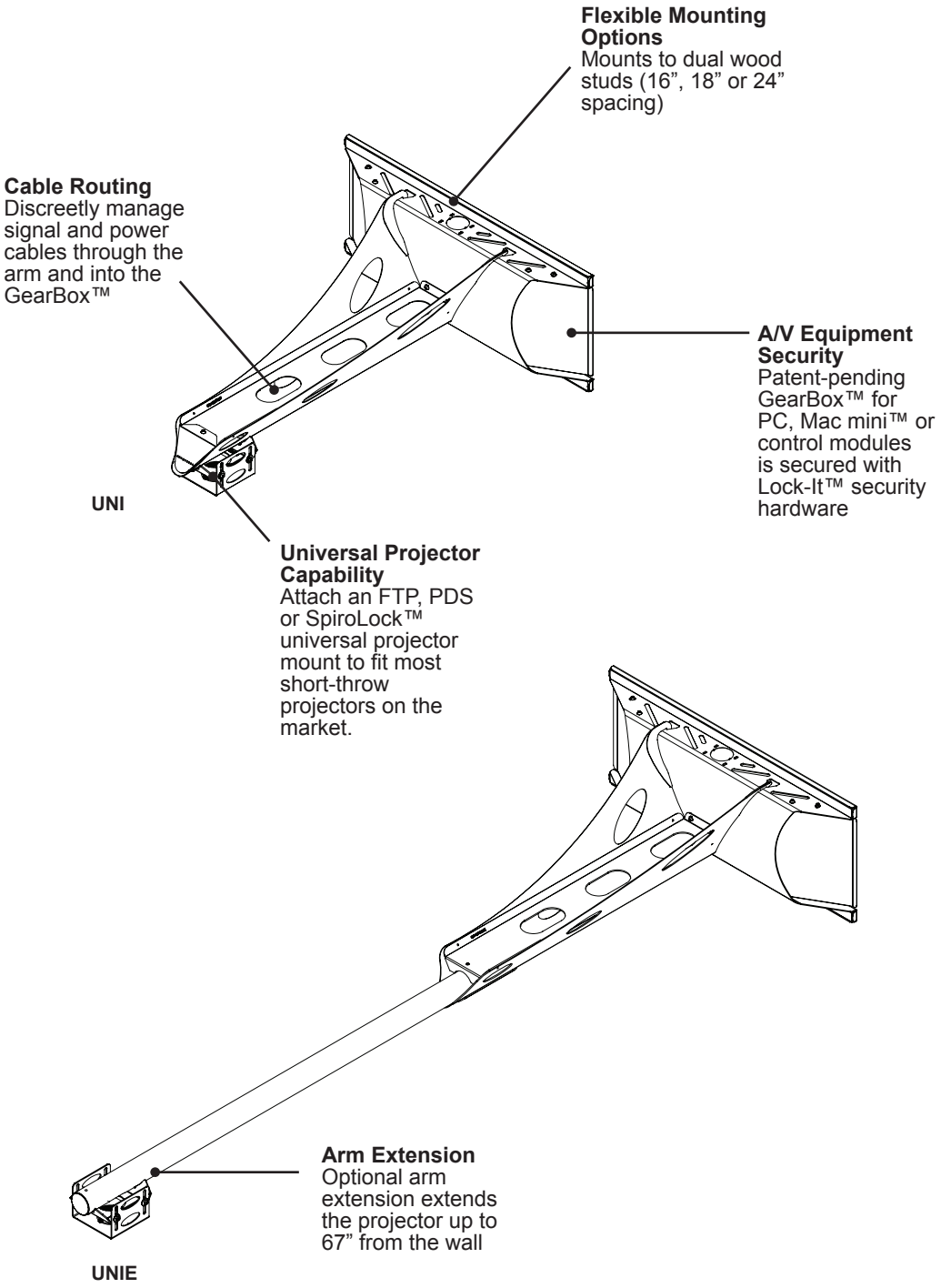
M5 Allen Wrench (Qty 1)

¼″ Nylon Spacer (Qty 2)


Square Washers (Qty 4)

Features

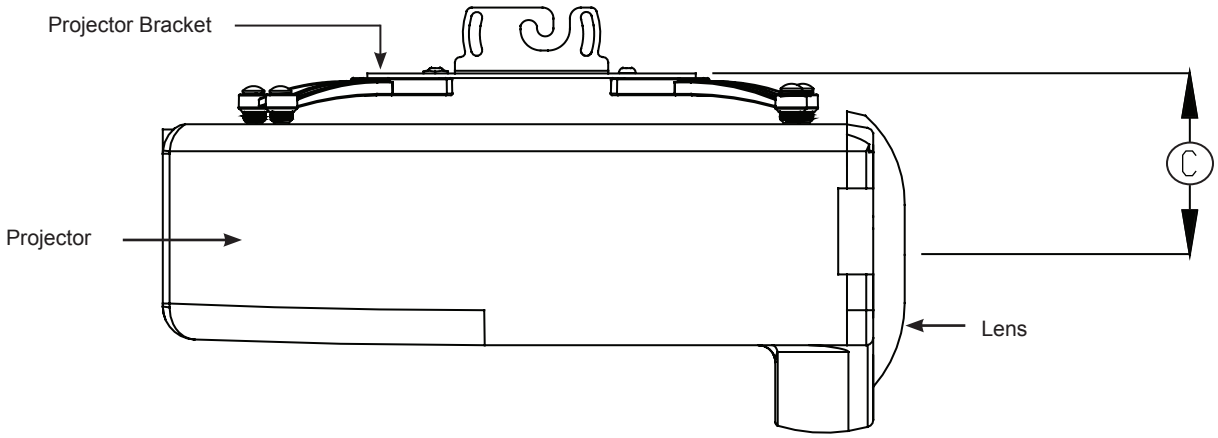
Premier Mounts' universal short-throw projector arm (UNI/UNIE) is one of the most flexible and installer-friendly short-throw arms on the market. It adjusts from 7" to 27" [up to 67" from the wall when used with an arm extension (UNIE)]. To make installatins even easier, an array of mounting points at the top and bottom of the GearBox™ allows you to mount the UNI/UNIE off-center from the whiteboard/screen, if needed. The UNI/UNIE mounts to a single stud or dual studs at 16", 18" or 24" spacing, and includes a Fine-Tune Projector (FTP), PDS or SpiroLock™ projector mount.


Flexible Mounting Options
Mounts to dual wood studs (16", 18" or 24" spacing)
Cable Routing
Discreetly manage signal and power cables through the arm and into the GearBox™
A/V Equipment Security
Patent-pending GearBox™ for PC, Mac mini™ or control modules is secured with Lock-It™ security hardware
UNI
Universal Projector Capability
Attach an FTP, PDS or SpiroLock™ universal projector mount to fit most short-throw projectors on the market.
Arm Extension
Optional arm extension extends the projector up to 67" from the wall
UNIE

Determining the Installation Height

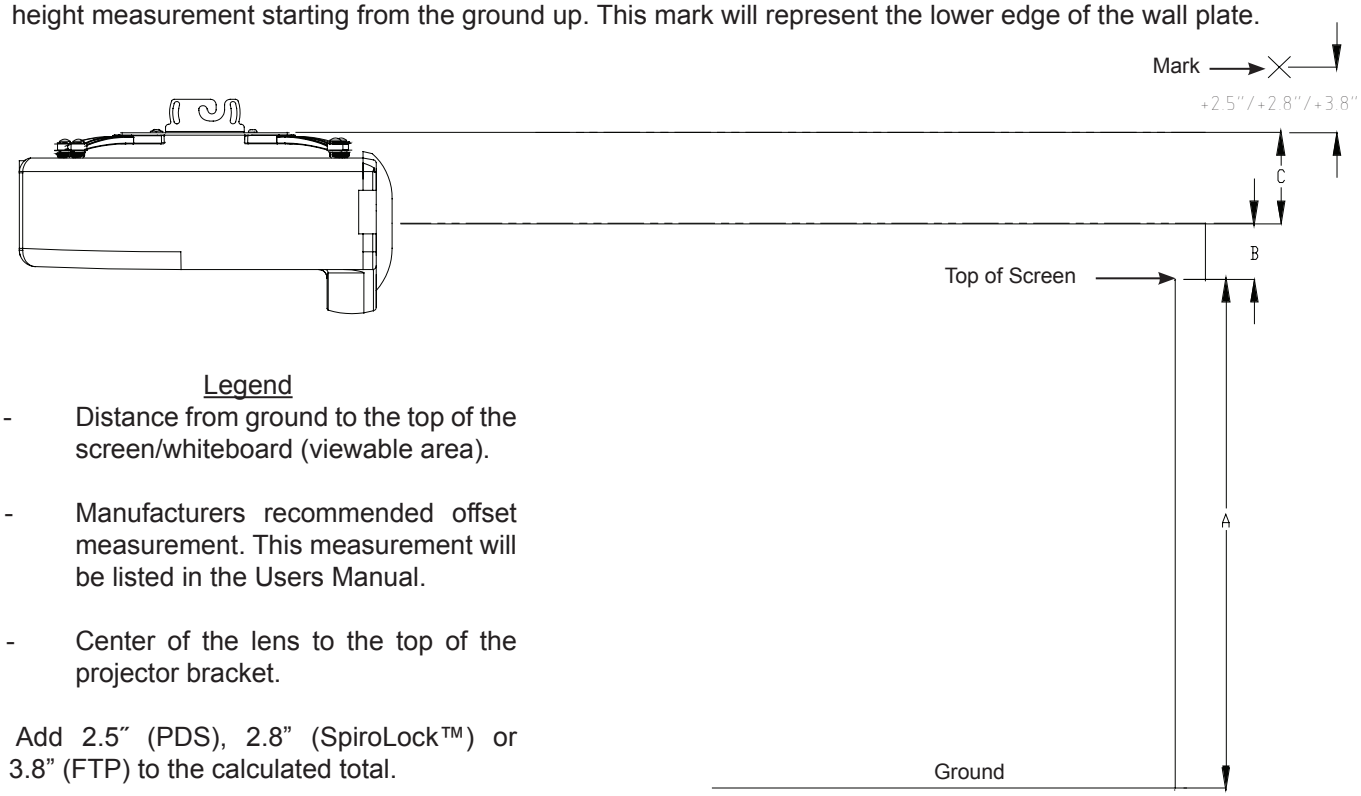
The UNI/UNIE is designed for use with the Fine-Tune Projector (FTP), PDS or SpiroLock™ projector mounts. In order to determine the installation height and throw distance, their projector mounting bracket must be mounted to the projector. Please refer to the projector mount installation instructions prior to performing the following steps.

Refer to the projector's user's manual to determine the offset of the projector lens to the top of the screen/whiteboard (B).



1. Measure distance from center of lens to the top of the projector mounting bracket (C).
2. Add the distance from the ground to the top of the screen (A). Add the projector manufacturers recommended offset from the projector manual (B), then add the measurement from Step 1 (C). Lastly, add 2.5" if you are using a PDS mount, 2.8" if SpiroLock™ or 3.8" if FTP.

   (Example: A + B + C + 2.5″ or 2.8" or 3.8" = ?)
3. Add the measurements to determine the mounting height mark. Place a mark at the top of the total calculated height measurement starting from the ground up. This mark will represent the lower edge of the wall plate.



Legend

A - Distance from ground to the top of the screen/whiteboard (viewable area).

B - Manufacturers recommended offset measurement. This measurement will be listed in the Users Manual.

C - Center of the lens to the top of the projector bracket.

Add 2.5″ (PDS), 2.8" (SpiroLock™) or 3.8" (FTP) to the calculated total.

This total distance will be the location for the bottom rail on the wall plate.

Proceed to the **"Wood Stud Installation"** section.

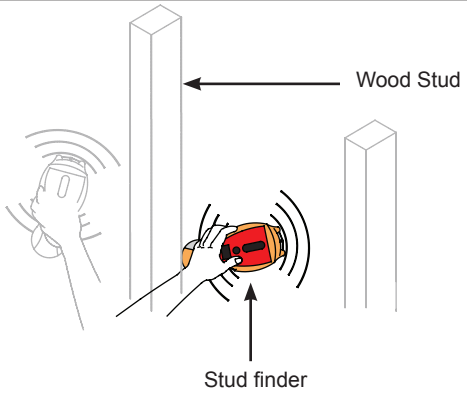
Wood Stud Installation

Do NOT over-tighten lag bolts when attaching the mount to the wall. Improper installation may result in personal injury or damage to property.

THE EXACT CENTER OF THE STUD MUST BE LOCATED FOR CORRECT AND SAFE INSTALLATION.

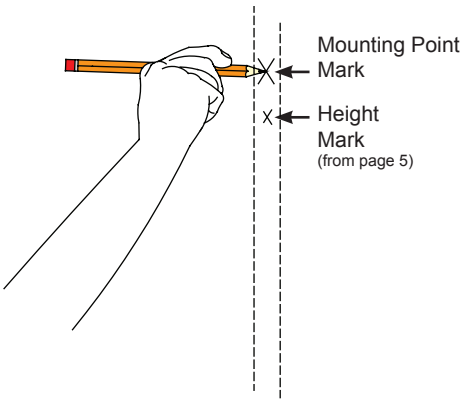
Step 1

Use an electronic stud finder (not supplied) to locate the center of the stud that is in the wall.



Step 2

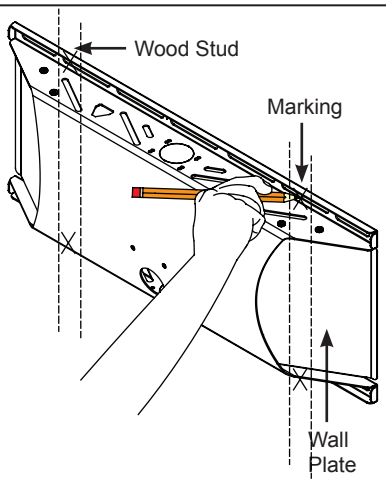
Use a pencil to mark the first mounting point, just above your height mark (from page 5).



Step 3

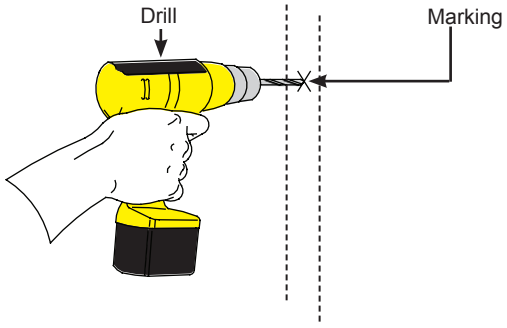
1. Use the level to make sure the wall plate is level from side to side.
2. Place the wall plate over the first mounting point mark and use a pencil to mark the rest of the mounting points.

Four (4) mounting points must be used. Two (2) upper mounting points and two (2) lower mounting points.



Step 4

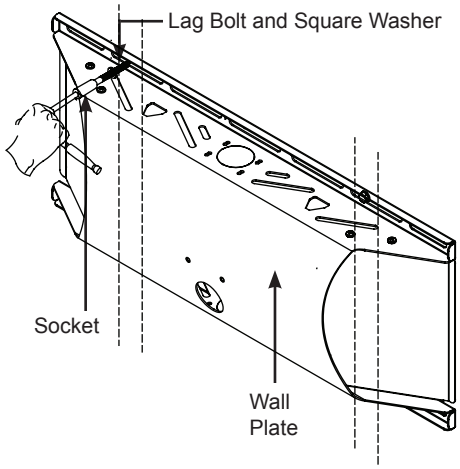
Once the mounting points have been marked, use a ¼″ drill bit and portable drill to drill the pilot holes.



Step 5

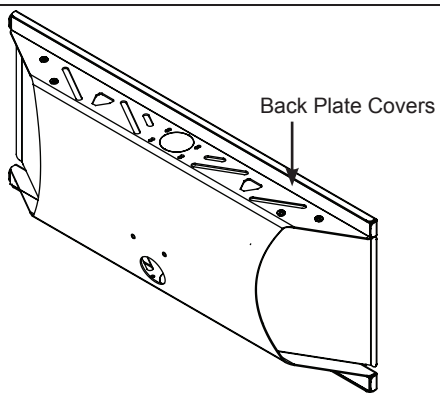
After the pilot holes have been drilled, use four (4) 5/16″ x 3″ lag bolts and four (4) square washers to mount the wall plate to the wooden studs.

Use a ½″ socket and socket wrench to finish this step.



Step 6

Insert and gently tap the upper and lower back plate covers into place.



Proceed to the **"Attaching the Projector Arm"** section.

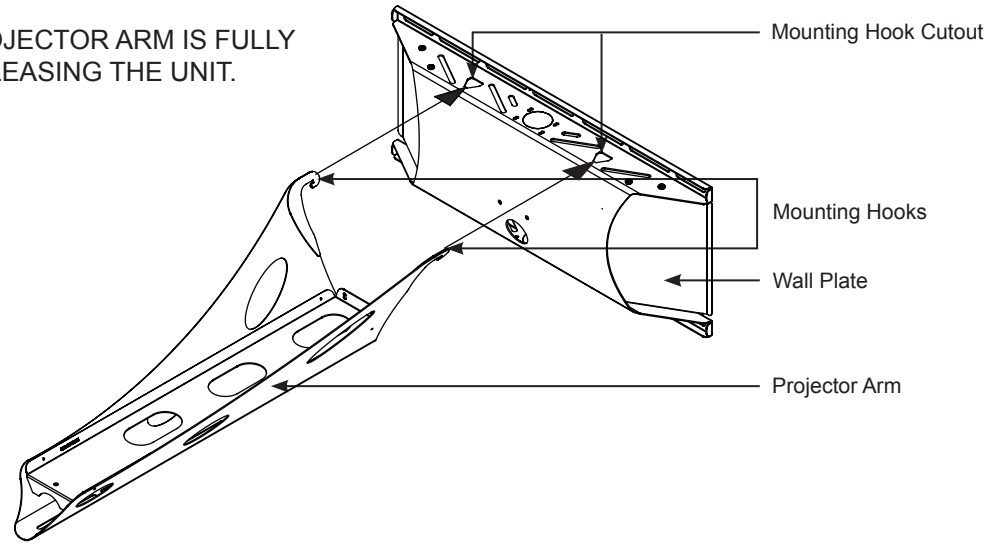
Attaching the Projector Arm

Step 1

1. Locate the mounting hook cutout on the top of the wall plate.
2. Tilt the arm slightly and gently insert the mounting hooks into the mounting hook cutouts.
3. Slowly lower and let the projector arm rest against the wall plate.

If using the storage feature of the product, it may be easier to route any wiring at this time (please see Page 15).

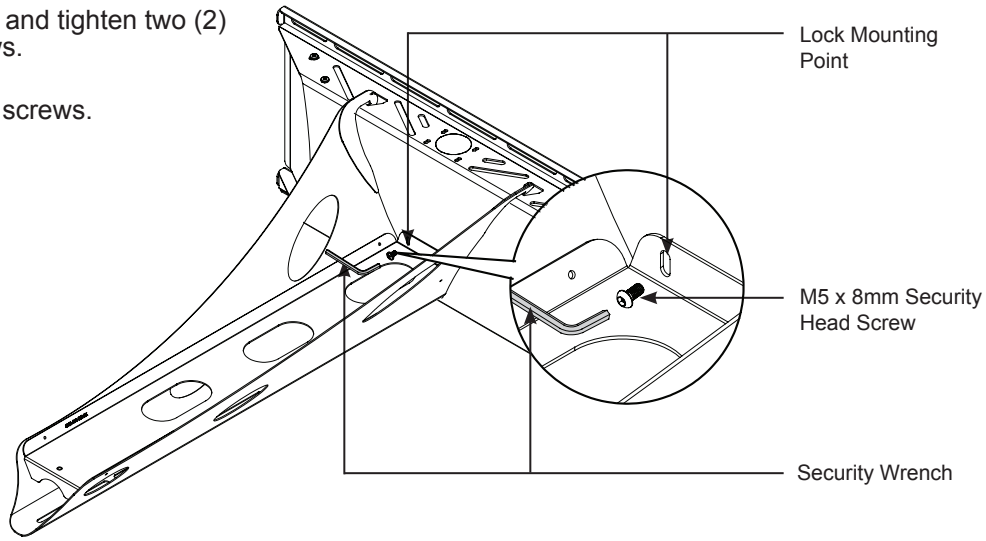
MAKE SURE THE PROJECTOR ARM IS FULLY SEATED BEFORE RELEASING THE UNIT.



Step 2

1. Locate the two (2) lock mounting points on the projector arm. These two points will be aligned with the lock mounting points on the wall plate.
2. Using a security wrench, insert and tighten two (2) M5 x 8mm security head screws.

Do NOT overtighten these screws.



Throw Distance Calculation

Please review your projector mount's user manual before attaching the upper mounting bracket. The correct throw distance (the distance from the projector to the screen) must be determined prior to mounting the projector.

1. Refer to the projector's user's manual to determine the distance from the lens to the front of the screen (X).
2. Measure the distance from the front of the lens to the center of the projector (Y).
3. Measure the distance from the wall to the face of the whiteboard/screen (Z).
4. Add all measurements (X + Y + Z) to determine projector placement on the arm assembly. This measurement will determine where the center of the mount bracket will be located on the arm assembly. Please make note of this measurement.

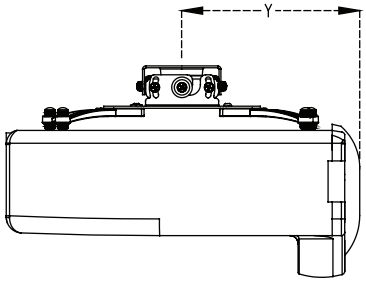
Calculations

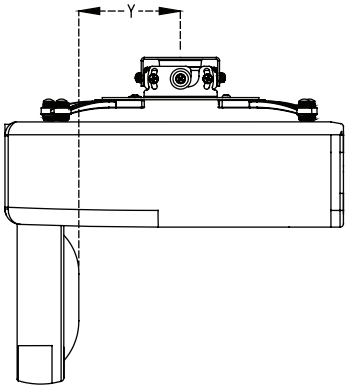
X = Manufacturers recommended throw distance

Z = Distance from wall to face of whiteboard/screen

Front Lens Throw Distance = (X + Y + Z)

Rear Lens Throw Distance = (X - Y + Z)





The UNI/UNIE can be also used as a wall-mounted standard projector mount as well as a short throw projector mount. Align the projector facing the opposite direction from the wall plate to project the image across the room. Please take into account the projectors throw capabilities prior to mounting in the projector opposite direction.

Continue to the **"Attaching the Projector Mount"** section.

Attaching the Projector Mount

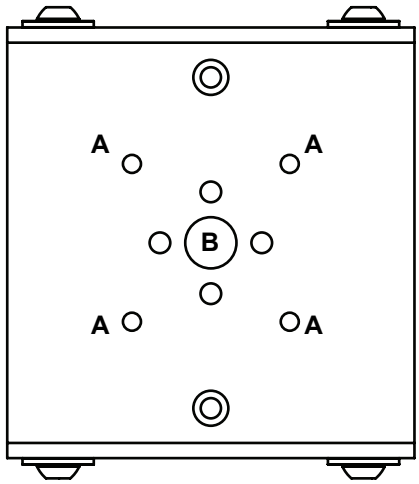
What kind of projector mount are you attaching to the adjustable mounting assembly?

If it is a Fine-Tune Projector (FTP) mount, continue to the "**Installing an FTP Mount**" section below.

If it is a SpiroLock™ mount, proceed to the "**Installing an SpiroLock™ Mount**" below.

If it is a PDS mount, proceed to the "**Installing a PDS Mount**" section on page 10.

Attach the projector mount to the mounting assembly before attaching the projector itself.



Bottom view of the adjustable mounting assembly

Figure 1

Installing an FTP Mount

1. Detach the upper half of the mounting assembly from the lower half.
2. Following the "**A**" mounting-hole pattern (Figure 1), use four (4) M4 x 10mm security screws to attach the FTP projector mount to the lower half of the mounting assembly (Figure 2). Do not overtighten.

Use the four mounting holes on the collar of the FTP.

3. Re-attach both components of the mounting assembly.

Refer to the FTP user manual for instructions on attaching the projector to the mount.

Are you attaching an extension arm?

If yes, continue to the "**Extension Arm Installation (Optional)**" section on page 12.

If no, proceed to the **"Adjustable Mounting Bracket Installation"** section on page 13.

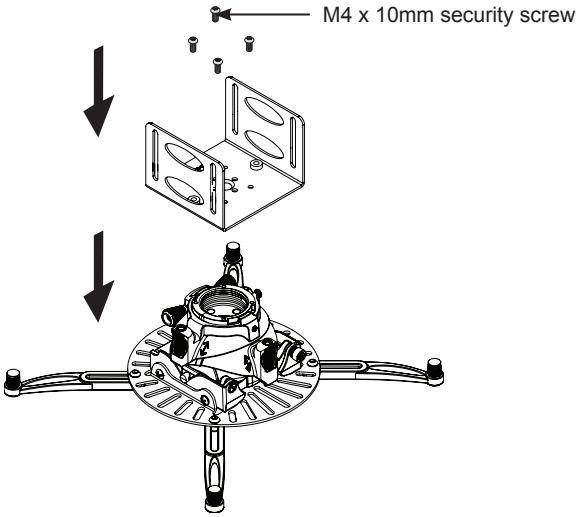


Figure 2

Installing a SpiroLock™ Mount

1. Detach the upper half of the mounting assembly from the lower half.
2. Following the "**B**" mounting-hole pattern (Figure 1), use one (1) M8 x 16mm flathead security screw to attach the SpiroLock™ projector mount to the lower half of the mounting assembly (Figure 3). Do not overtighten.

The M8 x 16mm flathead security screw is included with the SpiroLock™.

3. Re-attach both components of the mounting assembly.

Refer to the SpiroLock™ user manual for instructions on attaching the projector to the mount.

Are you attaching an extension arm?

If yes, continue to the "**Extension Arm Installation (Optional)**" section on page 12.

If no, proceed to the **"Adjustable Mounting Bracket Installation"** section on page 13.

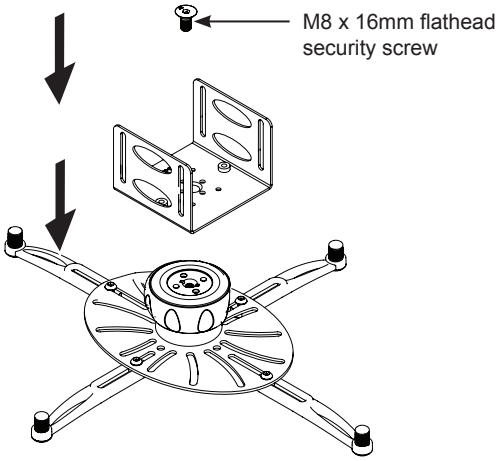


Figure 3

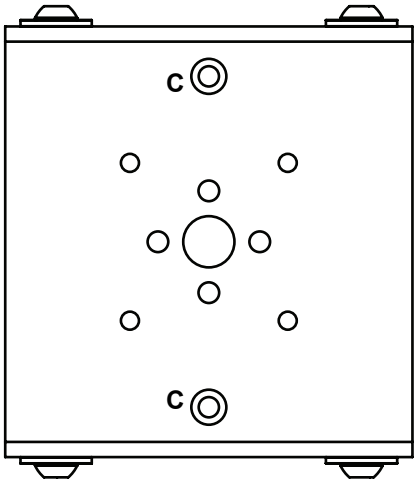
Attaching the Projector Mount (cont'd)

Installing a PDS Mount

How will you attach the PDS mount?

If you are using the adjustable mounting assembly, continue to the "**Attaching the PDS to the Adjustable Mounting Assembly**" section below.

If you are using only the upper mounting plate for an even lower profile, proceed to the "**Attaching the PDS to the Upper Mounting Plate**" section on page 11.



Bottom view of the adjustable mounting assembly

Figure 1

Attaching the PDS to the Adjustable Mounting Assembly

1. Detach the upper half of the mounting assembly from the lower half.
2. Following the "**C**" mounting-hole pattern (Figure 1), use two (2) M6 x 12mm security head screws to attach the PDS base box to the lower half of the mounting assembly (Figure 2).

You must insert the screws from the bottom of the PDS base box. Detach the base box from the mount, if needed.

3. Re-attach both components of the mounting assembly.

Refer to the PDS user manual for instructions on attaching the projector to the mount.

Do NOT overtighten these screws.

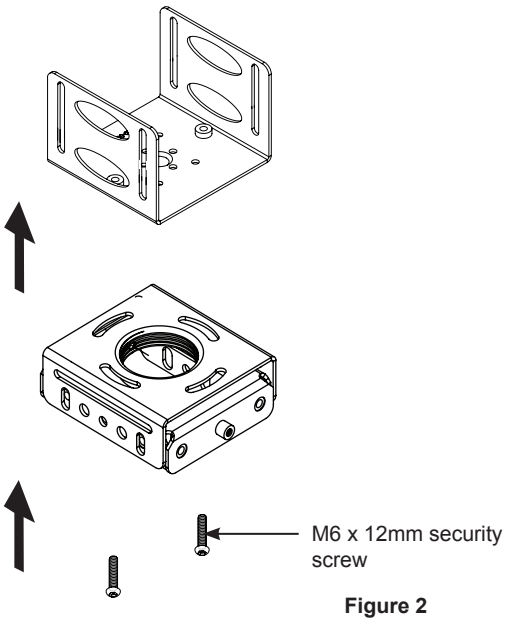


Figure 2

Are you attaching an extension arm?

If yes, continue to the "**Extension Arm Installation (Optional)**" section on page 12.

If no, proceed to the **"Adjustable Mounting Bracket Installation"** section on page 13.

Attaching the PDS to the Upper Mounting Plate

Projector dimensions differ between manufacturers. If the projector hangs too low from the UNI/UNIE, the adjustable mounting bracket may be removed. This will allow you to attach the base box directly to the upper mounting bracket for an even lower profile installation.

1. Detach the upper half of the mounting assembly from the lower half.
2. Use two (2) M6 x 12mm security head screws to attach the PDS base box to the upper mounting plate (Figure 2).

You must insert the screws from the bottom of the PDS base box. Detach the base box from the mount, if needed.

Refer to the PDS user manual for instructions on attaching the projector to the mount.

Do NOT overtighten these screws.

Are you attaching an extension arm?

If yes, continue to the "**Extension Arm Installation (Optional)**" section on page 12.

If no, proceed to the **"Adjustable Mounting Bracket Installation"** section on page 13.

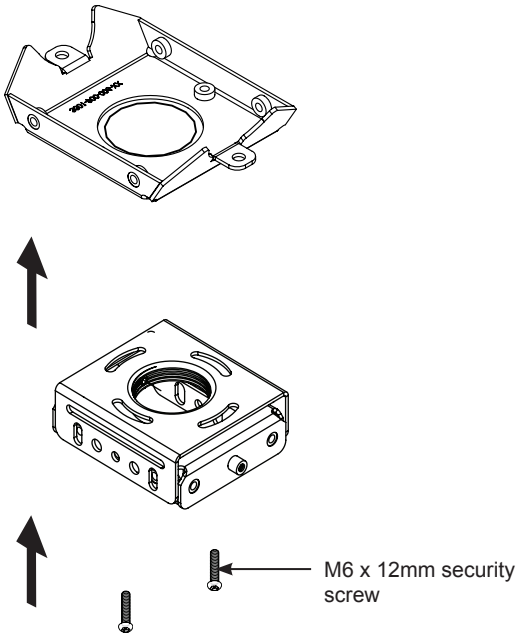


Figure 2

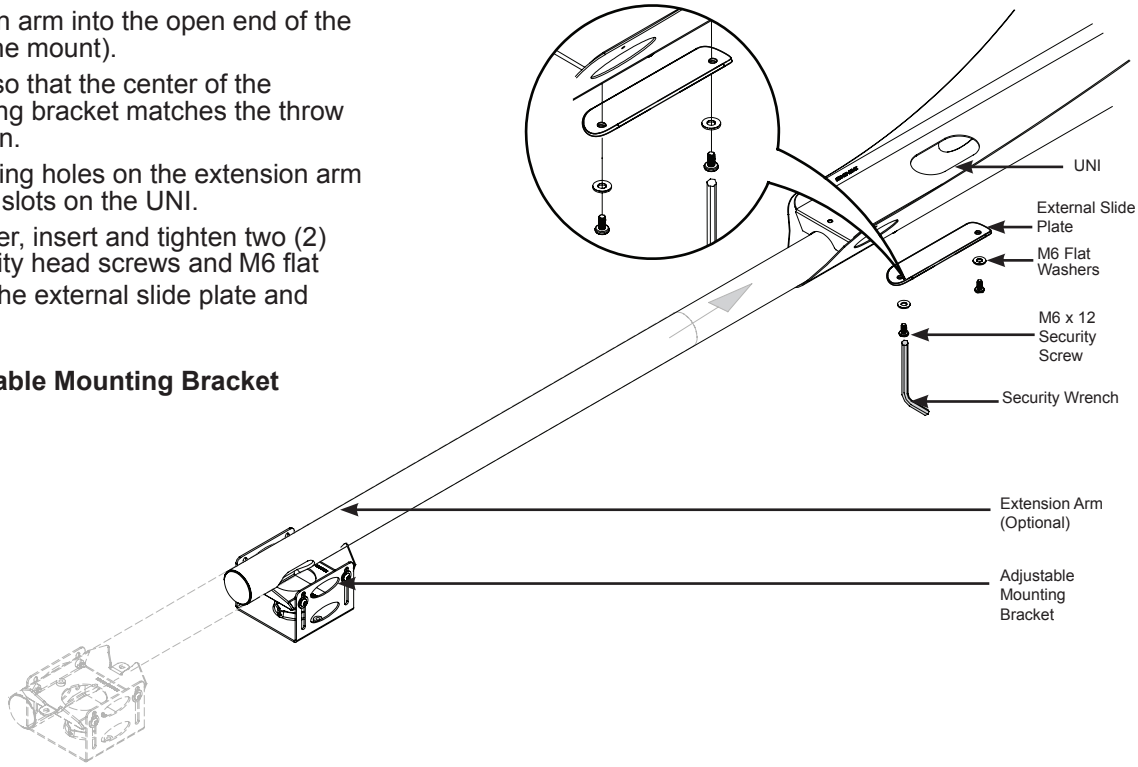
Extension Arm Installation (Optional)

Please see the Operator's Manual to determine the correct throw distance (the distance from the projector to the screen). The throw distance must be determined prior to mounting the projector (Page 8).

If the extension arm is purchased at a later date, the end cover must be removed prior to installing the extension arm.

1. Slide the extension arm into the open end of the UNI (the front of the mount).
2. Adjust the length so that the center of the adjustable mounting bracket matches the throw distance calibration.
3. Line up the mounting holes on the extension arm with the mounting slots on the UNI.
4. Using a screwdriver, insert and tighten two (2) M6 x 12mm security head screws and M6 flat washers through the external slide plate and tighten.

Proceed to the **"Adjustable Mounting Bracket Installation"** section.



Adjustable mounting bracket shown for illustration purposes only.

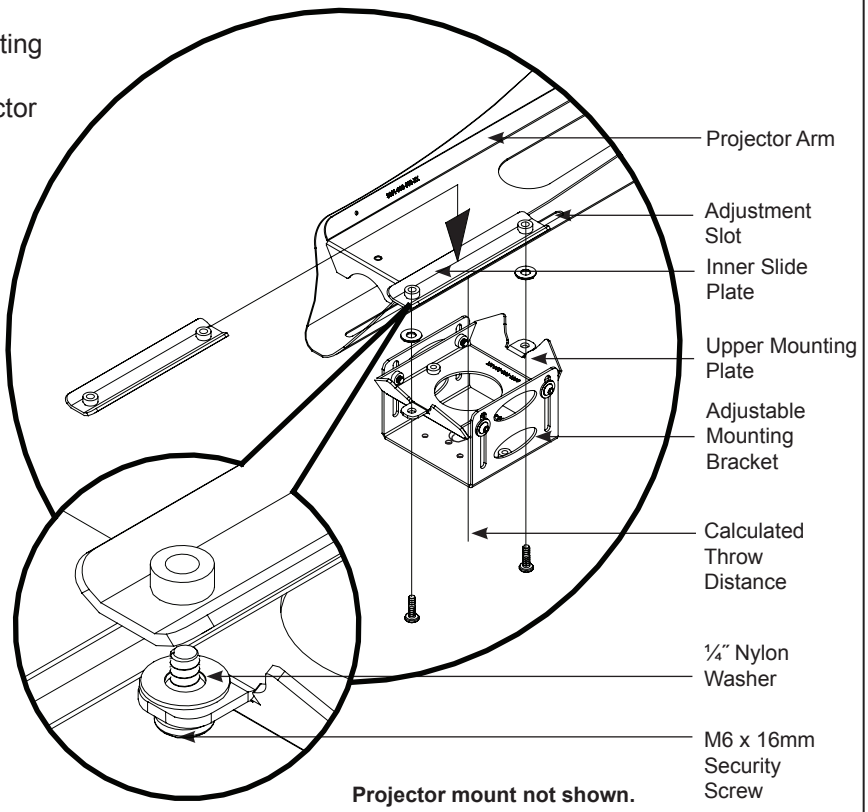
Adjustable Mounting Bracket Installation

If you are using the PDS and upper mounting plate assembly, you can still follow the instructions below to attach it to the projector arm.

1. Insert the internal slide plate into the projector arm.
2. Determine which adjustment slot best matches your throw distance calculation (see page 8).
3. Raise the adjustable mounting bracket into position.
4. Align the mounting holes of the upper mounting plate with the mounting holes of the inner slide plate.

Two (2 - one per screw) ¼″ nylon washers must be placed between the adjustable mounting bracket and the projector arm (see inset to the right).

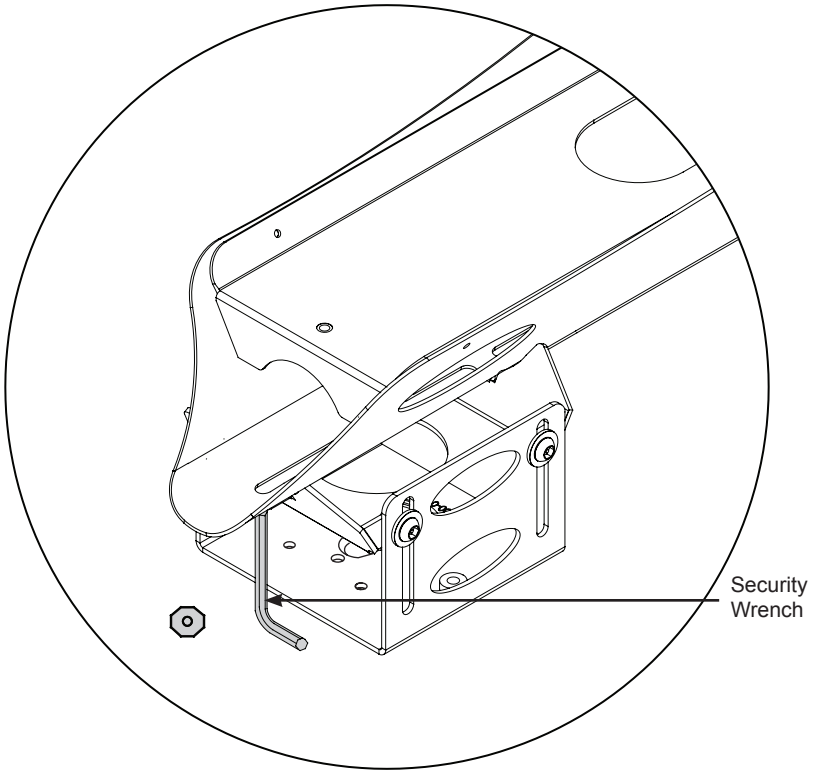
5. Secure and finger-tighten two (2) M6 x 16mm security head screws.
6. If needed, determine the Throw Distance again.
7. Once the correct throw distance has been determined, use the security wrench (supplied) to tighten the mounting screws.



Projector mount not shown.

If the adjustable mounting bracket needs to be adjusted, the four (4) M6 x 12mm security screws may be loosened so that the bracket can be moved ±2″. Once the desired height has been achieved, re-tighten the hardware.

Do NOT overtighten these screws.



Projector mount not shown.

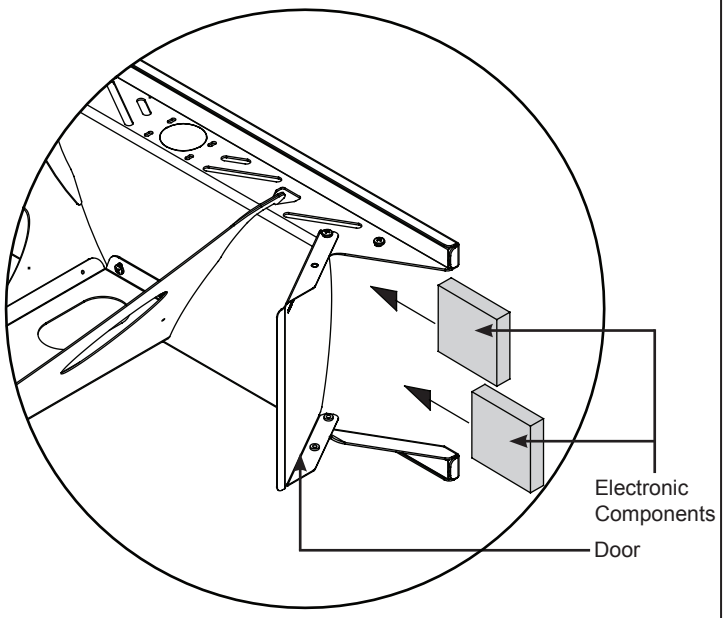
Continue to the **"Utilizing the Storage Feature"** section.

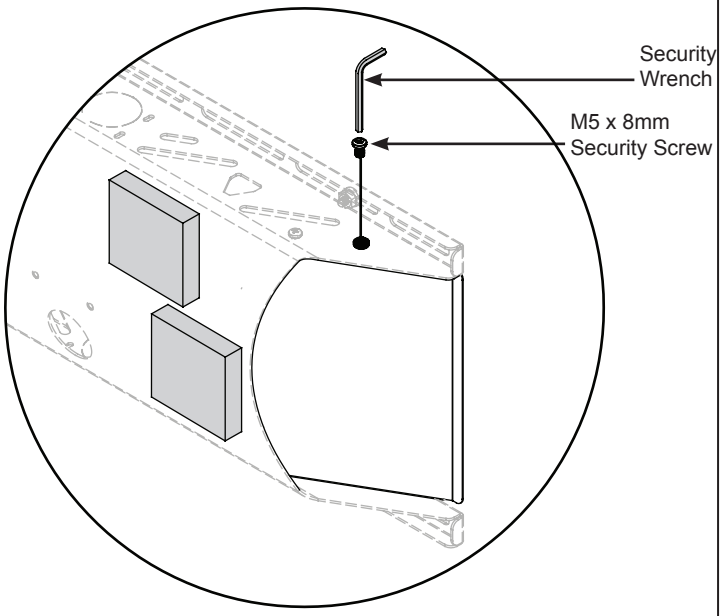
Utilizing the Storage Feature

The storage feature may be used to store electronic components. There is an accessible door on each side of the storage enclosure. It may be securely held shut with the use of four (4) M5 x 8mm security head screws. It may be easiest to pre-wire all cables down the arm (or extension) at this time.

1. Open the storage door that is located on the side of the wall plate.
2. Place the electronic components inside the storage enclosure.
3. Make all electronic connections at this time.
4. Close the storage door and secure using two (2; 1 upper and 1 lower) M5 x 8mm security head screws. Tighten using a security wrench. Repeat this process for the other side as well.

Proceed to the **"Cable Management"** section.



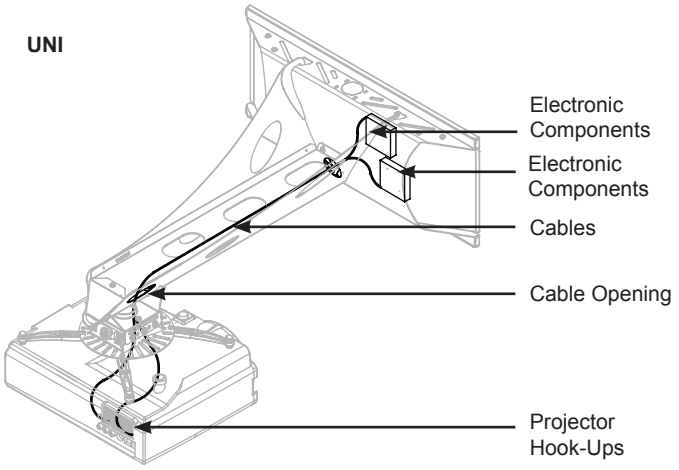


Cable Management

1. The cable access holes are located at the end of the short throw mount and on the wall plate.
2. Route the cables through one end of the UNI/UNIE and out the other end.
3. Attach the end cover with an M5 x 8mm security head screw.

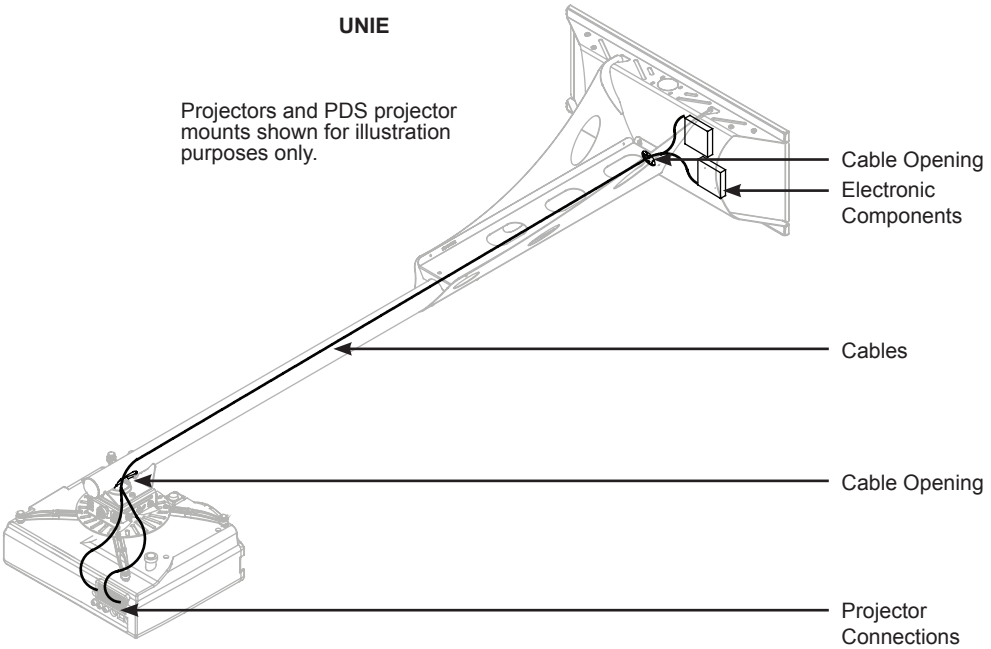
You may direct the cables out the end of the UNI/UNIE. The end cover has a perforated tab to allow cables to pass out the end. Pliers must be used to bend the perforated tab. If the cables will not fit, the end cover may be removed by loosening and extracting the M5 x 8mm security screw.

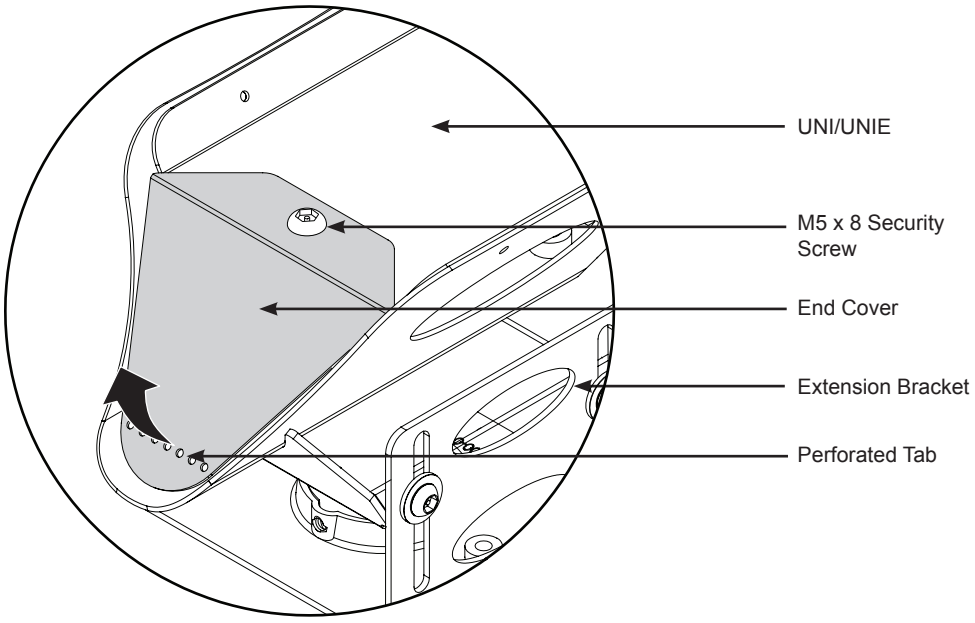
UNI



UNIE

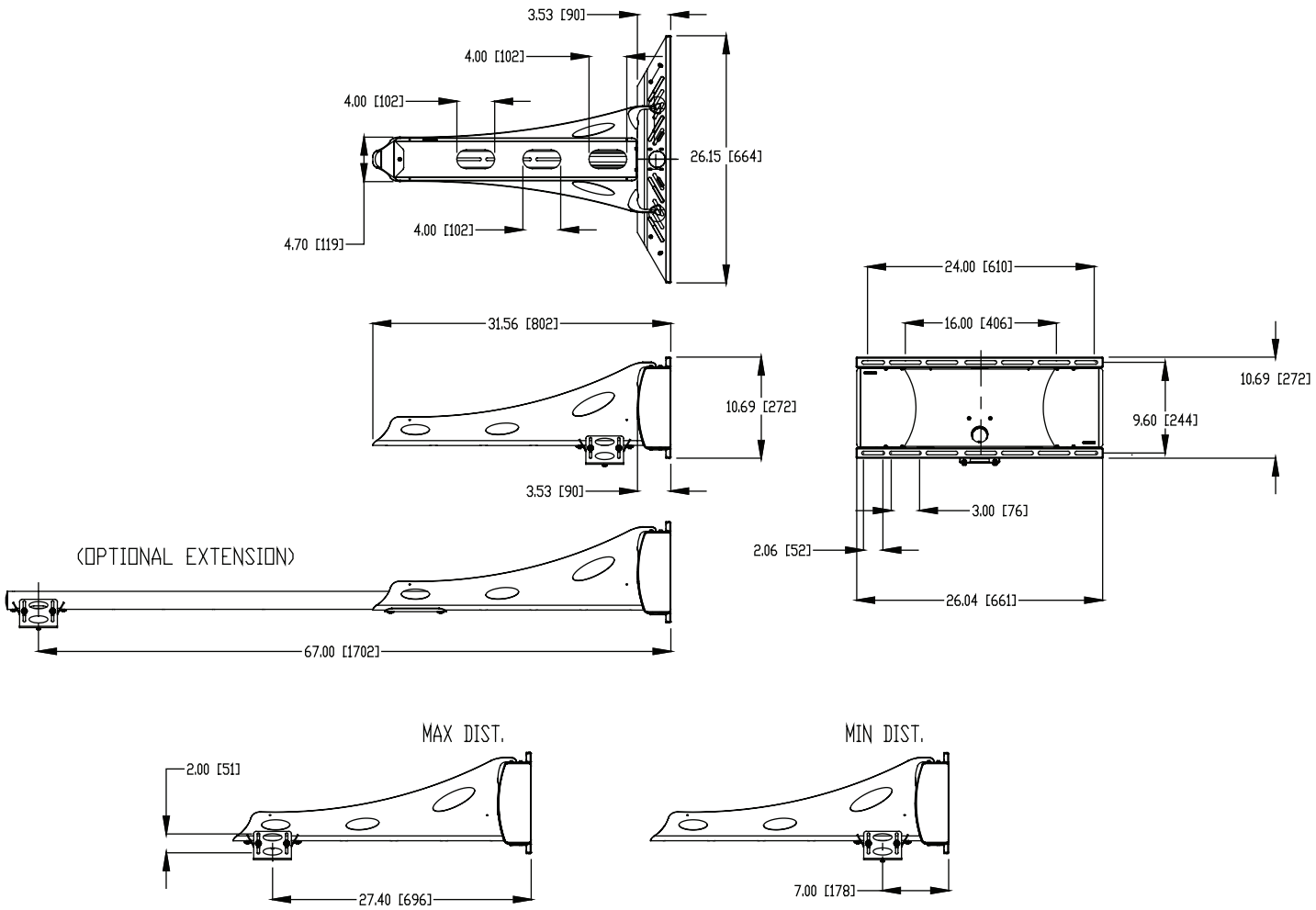
Projectors and PDS projector mounts shown for illustration purposes only.





Technical Specifications

All measurements are in inches(mm).



Warranty

PREMIER MOUNTS
LIMITED LIFETIME WARRANTY

What and Who is Covered by this Limited Warranty and for How Long
Premier Mounts warrants this product to be free from defects in material and workmanship for the lifetime of the original owner of this product. The limited warranty is valid only for the original purchaser of the product.

What Premier Mounts Will Do
At the sole option of Premier Mounts, Premier Mounts will repair or replace any product or product part that is defective. If Premier Mounts chooses to replace a defective product or part, a replacement product or part will be shipped to you at no charge, but you must pay any labor costs.

What is Not Covered; Limitations
PREMIER MOUNTS DISCLAIMS ANY LIABILITY FOR DAMAGE TO MOUNTS, ADAPTERS, DISPLAYS, PROJECTORS, OTHER PROPERTY, OR PERSONAL INJURY RESULTING, IN WHOLE OR IN PART, FROM IMPROPER INSTALLATION, MODIFICATION, USE OR MISUSE OF ITS PRODUCTS.

PREMIER MOUNTS DISCLAIMS ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. PREMIER MOUNTS IS NOT RESPONSIBLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES, INCLUDING BUT NOT LIMITED TO, INABILITY TO USE ITS PRODUCTS OR LABOR COSTS FOR REMOVING AND REPLACING DEFECTIVE PRODUCTS OR PARTS. SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION OR EXCLUSION MAY NOT APPLY TO YOU.

What Customers Must Do for Limited Warranty Service
If you discover a problem that you think may be covered by the warranty you MUST REPORT it in writing to the address below within thirty (30) days. Proof of purchase (an original sales receipt) from the original consumer purchaser must accompany all warranty claims. Warranty claims must also include a description of the problem, the purchaser's name, address, and telephone number. General inquiries can be addressed to Premier Mounts Customer Service at 1-800-368-9700. Warranty claims will not be accepted over the phone or by fax.

Premier Mounts
Attn: Warranty Claim
3130 East Miraloma Ave.
Anaheim, CA 92806

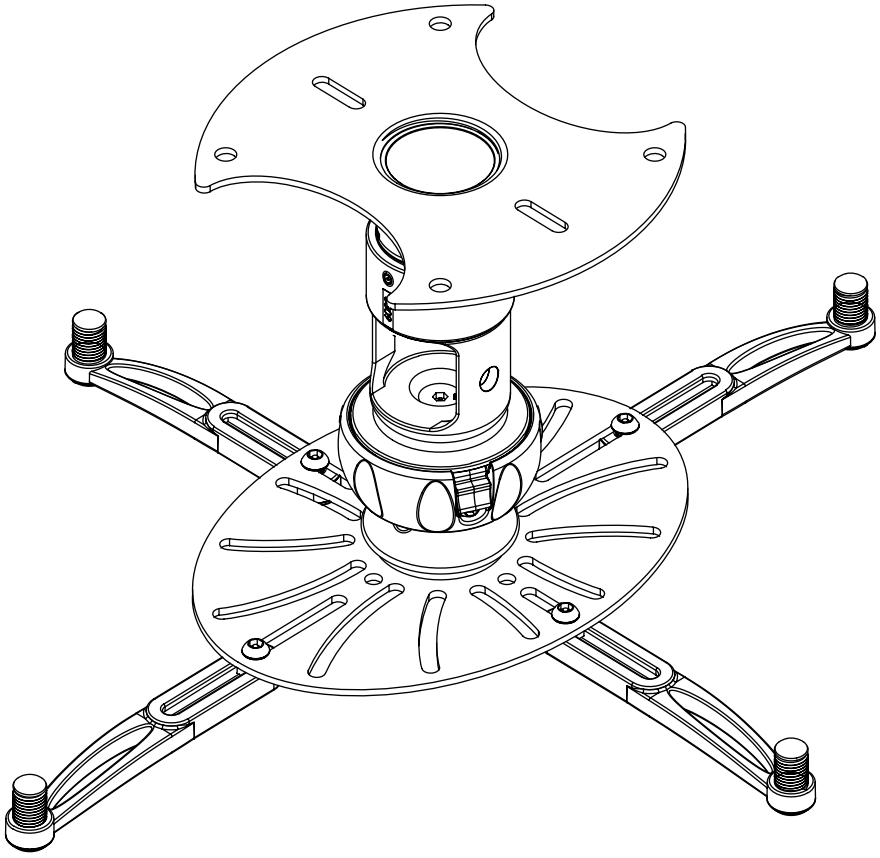
How State Law Applies
THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE.

Disclaimer

Premier Mounts intends to make this manual accurate and complete. However, Premier Mounts makes no claim that the information contained herein covers all details, conditions or variations, nor does it provide for every possible contingency in connection with the installation or use of this product. The information contained in this document is subject to change without notice or obligation of any kind. Premier Mounts makes no representation of warranty, expressed or implied, regarding the information contained herein. Premier Mounts assumes no responsibility for accuracy, completeness or sufficiency of the information contained in this document.

PREMIER MOUNTS®
CREATING POSITIVE CUSTOMER EXPERIENCES

INSTALLATION INSTRUCTIONS



SPI-PRO

SpiroLock™ Universal Projector Mount For 1½" NPT

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Anaheim, CA 92806 USA
USA and Canada
Phone: 1.800.368.9700
Fax: 1.800.832.4888
Other Locations
Phone: (001).714.632.7100
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Shilton Industrial Estate,
Shilton, Coventry, England CV79JY
Phone: +44 (0) 2476 614700
Fax: +44 (0) 2476 614710

9530-005-073-04

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Weight Limit

Maximum Projector Weight: 45 lbs.

THE CEILING STRUCTURE MUST BE CAPABLE OF SUPPORTING AT LEAST FIVE TIMES THE WEIGHT OF THE PROJECTOR. IF NOT, THE CEILING STRUCTURE MUST BE REINFORCED.

Warning Statements

PRIOR TO THE INSTALLATION OF THIS PRODUCT, THE INSTALLATION INSTRUCTIONS MUST BE READ AND COMPLETELY UNDERSTOOD. KEEP THESE INSTALLATION INSTRUCTIONS IN AN EASILY ACCESSIBLE LOCATION FOR FUTURE REFERENCE.

PROPER INSTALLATION PROCEDURE BY A QUALIFIED SERVICE TECHNICIAN MUST BE FOLLOWED, AS OUTLINED IN THESE INSTALLATION INSTRUCTIONS. FAILURE TO DO SO COULD RESULT IN PROPERTY DAMAGE, SERIOUS PERSONAL INJURY, OR EVEN DEATH.

SAFETY MEASURES MUST BE PRACTICED AT ALL TIMES DURING THE ASSEMBLY OF THIS PRODUCT. USE PROPER SAFETY EQUIPMENT AND TOOLS FOR THE ASSEMBLY PROCEDURE TO PREVENT PERSONAL INJURY.

PREMIER MOUNTS DOES NOT WARRANT AGAINST DAMAGE CAUSED BY THE USE OF ANY PREMIER MOUNTS PRODUCT FOR PURPOSES OTHER THAN THOSE FOR WHICH IT WAS DESIGNED OR DAMAGE CAUSED BY UNAUTHORIZED ATTACHMENTS OR MODIFICATIONS, AND IS NOT RESPONSIBLE FOR ANY DAMAGES, CLAIMS, DEMANDS, SUITS, ACTIONS OR CAUSES OF ACTION OF WHATEVER KIND RESULTING FROM, ARISING OUT OF OR IN ANY MANNER RELATING TO ANY SUCH USE, ATTACHMENTS OR MODIFICATIONS.

At least two qualified people should perform the assembly procedure. Personal injury and/or property damage can result from dropping or mishandling the projector.

If mounting to wall studs or ceiling studs, make sure that the mounting screws are anchored into the center of the wall studs or ceiling studs. Use of an edge-to-edge stud finder is recommended.

Be aware of the mounting environment. If drilling and/or cutting into the mounting surface, always make sure that there are no electrical wires in wall. Cutting or drilling into an electrical line may cause serious personal injury.

Make sure there are no water or natural gas lines inside the wall where the mount is to be located. Cutting or drilling into a water or gas line may cause severe property damage or personal injury.

This product is intended for indoor use only. Use of this product outdoors could lead to product failure and/or serious personal injury.

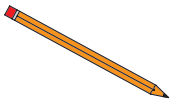
Do not install near sources of high heat. Do not install on a structure that is prone to vibration, movement or chance of impact.

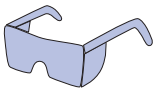
Contact Premier Mounts with any questions:
1-800-368-9700
techsupport@mounts.com

Installation Tools

The following tools may be required depending upon your particular installation. They are not included.

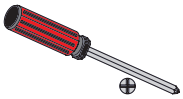
Electronic Stud Finder


Pencil


Protective Eyewear

Hand Held Drill

⅛″ Drill Bit (Wood)


Phillips Head Screwdriver

5/16″ Masonry Drill Bit

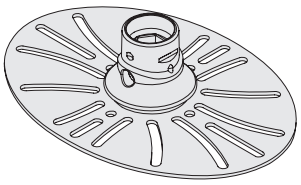
Hammer

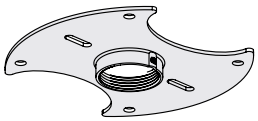
Ladder

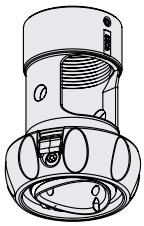
Parts List

Make sure your Premier Mounts product has the following hardware and components before beginning installation. If there are parts missing and/or damaged, stop the installation and call Premier Mounts at (800) 368-9700.

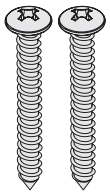
SpiroLock™ For 1½" NPT Hardware


SpiroLock™ Projector Plate (Qty 1)

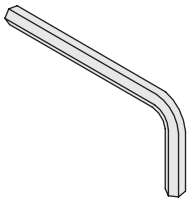

SpiroLock™ Ceiling Plate (Qty 1)

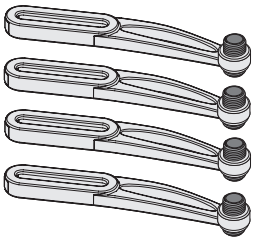

SpiroLock™ Twist Lock Collar (Qty 1)

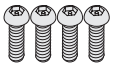
Close Nipple (Qty 1)

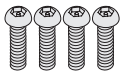

#14 x 2″ Wood Screws (Qty 2)

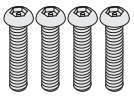
M3 Security Allen Wrench (Qty 1)

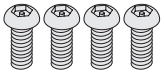

M5 Security Allen Wrench (Qty 1)

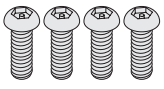

Mounting Legs (Qty 4)

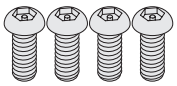

M2.5 x 10mm Security Screw (Qty 4)

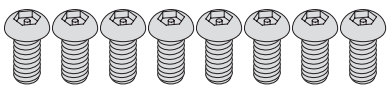

M2.5 x 12mm Security Screw (Qty 4)


M3 x 16mm Security Screw (Qty 4)


M4 x 10mm Security Screw (Qty 4)

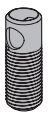

M4 x 12mm Security Screw (Qty 4)


M5 x 12mm Security Screw (Qty 4)


M6 x 12mm Security Screw (Qty 8)

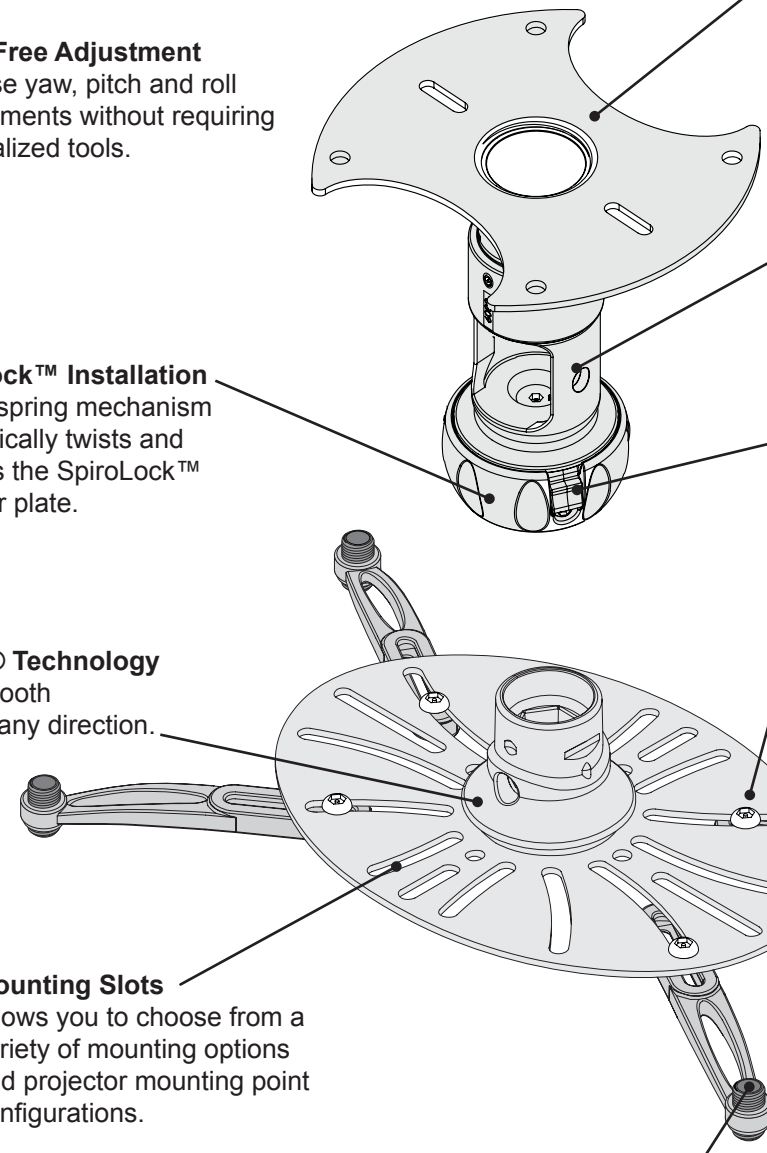
¼-20 x 5/16″ Security Screw (Qty 1)

M3 Flat Washer (Qty 10)


Lock-It™ Security Barrel (Qty 1)

Features

The SpiroLock™ Universal Projector Mount is easy to install. Snap and lock the projector onto the mount, then rotate and pivot freely for the optimal viewing angle. The Lock-It™ security screws and leveling barrel add an extra layer of security and theft deterrence.



Ceiling Plate
Can easily be installed on either a wood stud or solid ceiling.

Tool-Free Adjustment
Precise yaw, pitch and roll adjustments without requiring specialized tools.

1-1/2" NPT Coupler
Can attach the mount to a 1-1/2" standard threaded pipe or one of Premier Mounts adjustable-height ceiling adapters.

SpiroLock™ Installation
Torsion spring mechanism automatically twists and captures the SpiroLock™ projector plate.

Locking Tab and Lock-It™ Screw
Assures that the projector plate releases only when you want it released.

Lock-It™ Security Hardware
Protect your projector from theft by installing specialized hardware at critical mounting points.

Radial Glide® Technology
Up to 6º of smooth adjustment in any direction.

Mounting Slots
Allows you to choose from a variety of mounting options and projector mounting point configurations.

Adjustable Leveling Barrels
You can quickly level the mounting legs without any specialized tools.

Mounting Legs
Combined with the numerous projector plate mounting slots, the mounting legs allow for multiple mount configurations.

Installing the SpiroLock™

Introduction

You may secure the SpiroLock™ mount to a single ceiling stud; a solid surface ceiling, such as concrete; a 1-1/2” NPT pipe; or a Premier Mounts ceiling adapter.

See the Premier Mounts Website at www.mounts.com for compatible ceiling adapters.

Read these installation instructions thoroughly before attempting to install the Premier Mounts product.

Familiarize yourself with the contents of the package and make sure you have all the parts and tools you need to safely complete the installation.

Step 1

How are you installing the SpiroLock™?

If you are using a wood stud, proceed to **“Wood Stud Installation”** on page 6.

If you are using a solid surface, such as a concrete ceiling, proceed to **“Solid Ceiling Installation”** on page 8.

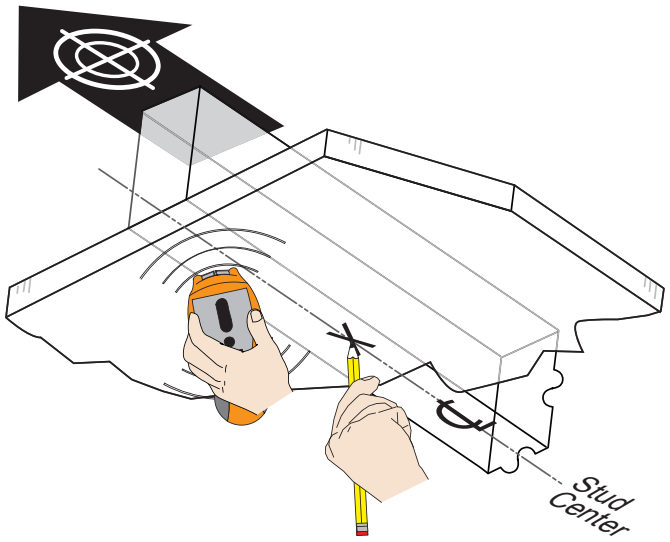
If you are using a 1-1/2” NPT pipe or Premier Mounts ceiling adapter, proceed to **“Attaching to a 1-1/2” NPT Pipe”** on page 10.

Wood Stud Installation

Step 1

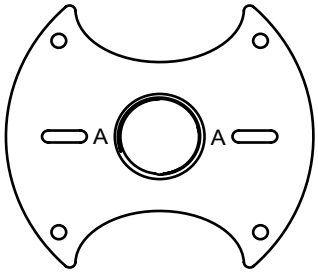
1. Use an electronic stud finder to locate a ceiling stud closest to your desired installation location.
2. Identify the center of the ceiling stud.
3. Use a pencil to mark the location of the ceiling stud center.

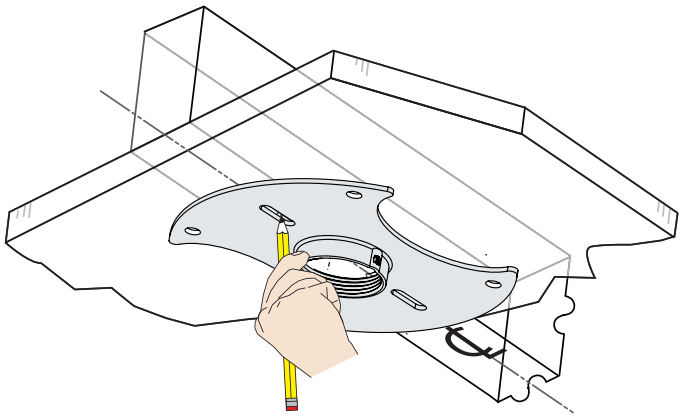
The target arrow indicates the direction of the projector screen relative to the projector mount.



Step 2

1. Place the SpiroLock™ Ceiling Plate against the ceiling. Its mounting holes should align with the center of the ceiling stud.
2. Use a pencil and mark two (2) mounting hole locations through each of the mounting points (**A**) in the SpiroLock™ Ceiling Plate.



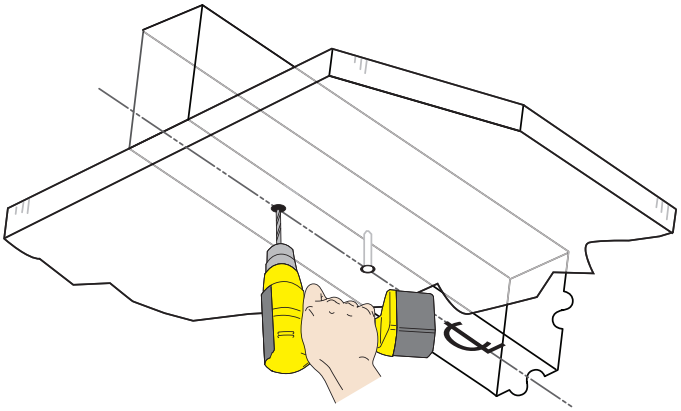


Step 3

1. Remove the SpiroLock™ Ceiling Plate and set it aside.
2. Drill a pilot hole in the center of each mark using a hand held drill and a 1/8″ drill bit.

Pro Tip

Pilot Holes
When a screw is driven into a material, such as wood, it can act as a wedge, generating outward pressure which can cause many materials to split. Drilling a small pilot hole where the screw will be driven causes less 'wedging' to take place, thereby reducing the likelihood of the material being split. It also reduces the possibility of the screw head getting sheared off by torque.



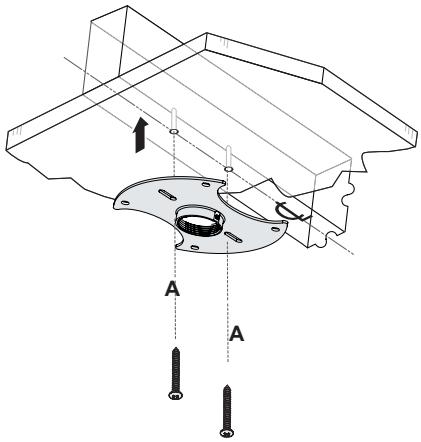
Wood Stud Installation (cont'd)

Step 4

1. Insert one (1) #14 x 2″ screw through each of the mounting holes (**A**) on the bottom of the SpiroLock™ Ceiling Plate and into the pilot holes.
2. Tighten each screw until the SpiroLock™ Ceiling Plate is secure against the ceiling.

Do not overtighten the #14 x 2″ screws.

If applicable, drill a hole above the mounting hole for wiring access.



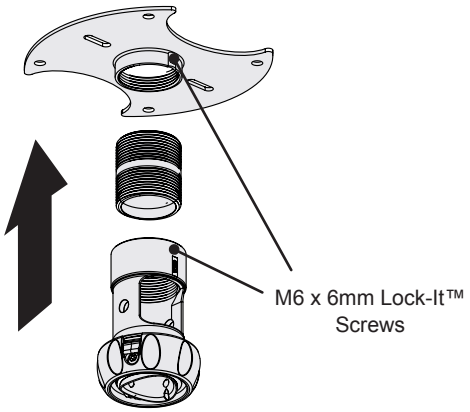
Step 5

1. Secure the SpiroLock™ and close nipple onto the Ceiling Plate.
2. Use an M3 Allen wrench to tighten the M6 x 6mm Lock-It™ screws in the Ceiling Plate and SpiroLock™ twist lock collar.

Do not overtighten the Lock-It™ screws.

3. Route any cables up through the SpiroLock™ and into the ceiling structure.

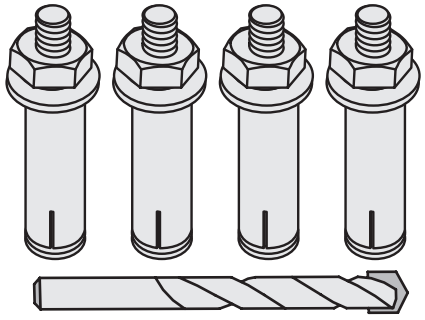
Proceed to **"Attaching the Projector Plate"** on page 11.



Solid Ceiling Installation

Introduction

You can mount the SpiroLock™ projector mount to any solid surface ceiling which has a minimum 6″ thickness. For concrete installation use concrete wedge anchors (¼″ recommended) to secure the mounting hardware and a masonry drill bit to drill the pilot holes. Wedge anchors and masonry drill bits are not supplied, but you can purchase them at your local hardware store.

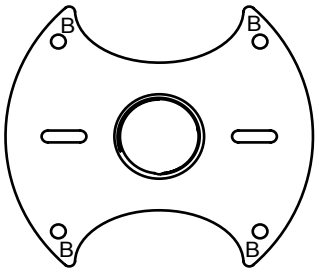


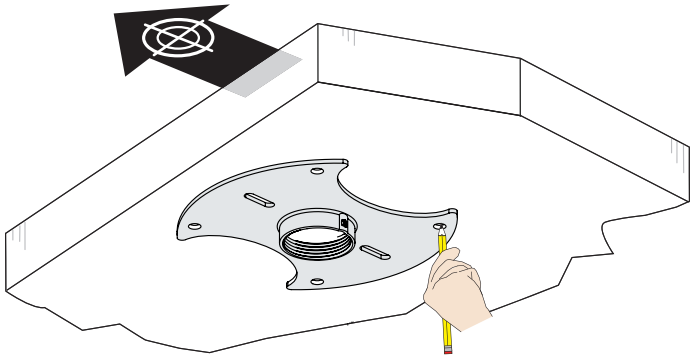
Example Wedge Anchors and Masonry Bit
Not included

Step 1

1. Place the SpiroLock™ Ceiling Plate into position against the ceiling.
2. Use a pencil and mark four (4) mounting hole locations through each of the mounting points (**B**) in the SpiroLock™ Ceiling Plate.

The target arrow indicates the direction of the projector screen relative to the projector mount.

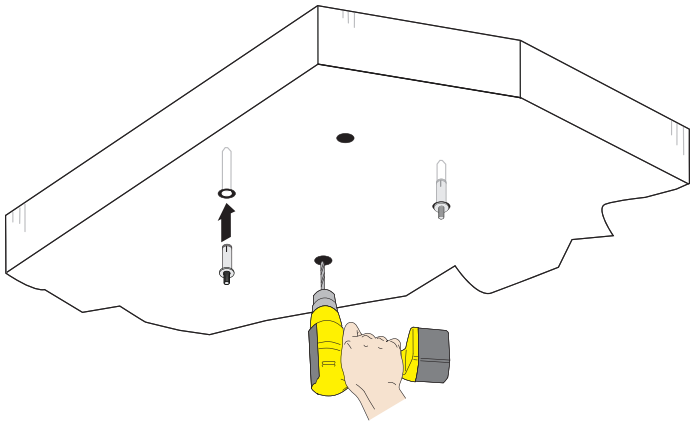




Step 2

1. Drill a hole at each mark using the appropriate diameter masonry bit for your wedge anchor.
2. Remove the nut and washer from the wedge anchors.
3. Insert a wedge anchor into each hole.

If necessary, use a hammer to lightly tap each wedge anchor into place.



Solid Ceiling Installation (cont'd)

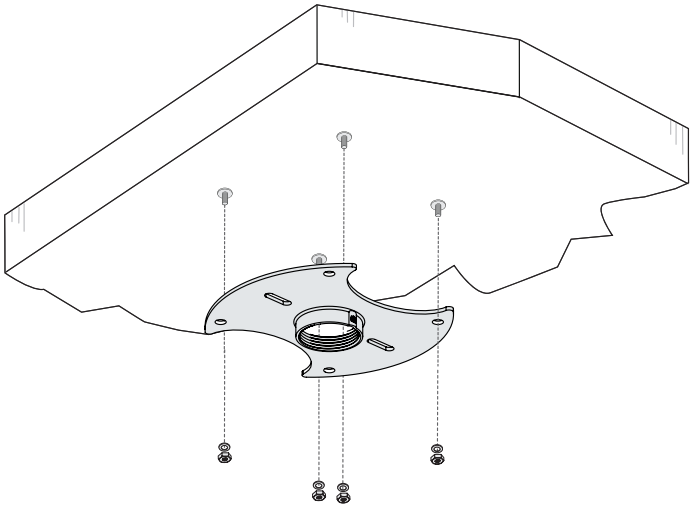
Step 3

1. Move the SpiroLock™ Ceiling Plate back into position.
2. Thread a wedge anchor nut (and washer, if provided with the wedge anchor) onto each threaded wedge anchor shaft.

Do not tighten any of the wedge anchor nuts (and any washers) until all nuts and washers are threaded onto the shafts.

Do not overtighten the wedge anchor nuts.

If applicable, drill a hole above the mounting hole for wiring access.



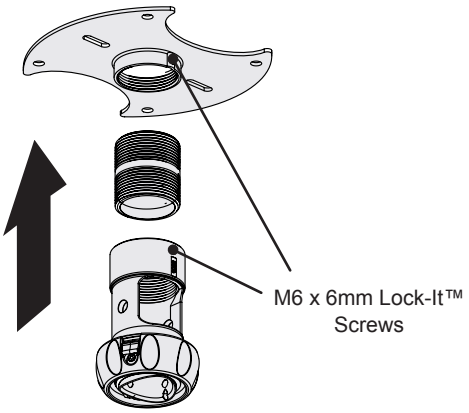
Step 4

1. Secure the SpiroLock™ and close nipple onto the Ceiling Plate.
2. Use an M3 Allen wrench to tighten the M6 x 6mm Lock-It™ screws in the Ceiling Plate and SpiroLock™ twist lock collar.

Do not overtighten the Lock-It™ screws.

3. Route any cables up through the SpiroLock™ and into the ceiling structure.

Proceed to **"Attaching the Projector Plate"** on page 11.



Attaching to a 1-1/2” NPT Pipe

See the Premier Mounts Website at www.mounts.com for compatible ceiling adapters.

❶ Secure a 1-1/2” NPT pipe or Premier Mounts ceiling adapter into the ceiling.

This step does not require the use of the Ceiling Plate or close nipple.

❷ Attach the SpiroLock™ to the NPT pipe (Figure 1).

Make sure the SpiroLock™ is threaded into the NPT pipe at least four complete turns. If you have trouble turning, insert a screwdriver through both access holes and apply pressure when turning the SpiroLock™ (Figure 2).

❸ Use an M3 Allen wrench to tighten the M6 x 6mm Lock-It™ screws in the SpiroLock™ coupler to secure it to the NPT pipe.

Do not overtighten the Lock-It™ screws.

❹ Route any cables up through the SpiroLock™ and into the ceiling structure.

Proceed to **“Attaching the Projector Plate”** on page 11.

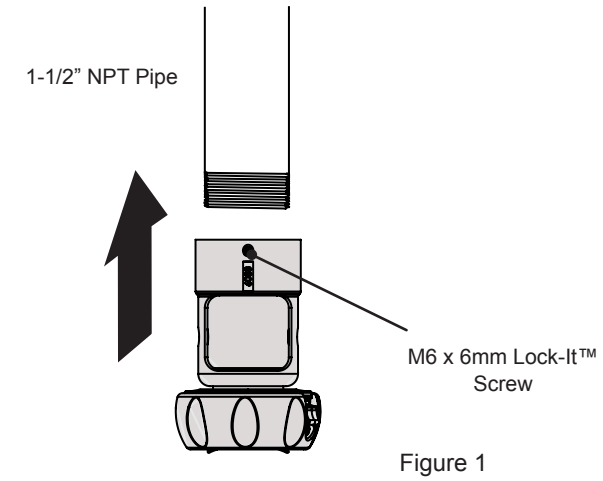


Figure 1

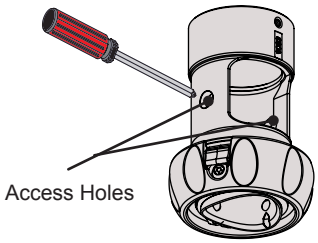


Figure 2

Attaching the Projector Plate
Selecting the Mounting Hardware

1. Insert a small straw or toothpick into the threaded inserts found on the bottom or top of the projector.
2. Use a pencil to mark the depth of the threaded insert on the small straw or toothpick.
3. Mark the straw or toothpick 1/8” above the depth of the threaded insert, as shown in Figure 1.
4. Insert the small straw or toothpick into the remaining threaded inserts to compare and verify their depth using the straw or toothpick’s 1/8” allowance mark.
5. Locate the correct diameter screw for the threaded insert.

If the screw you selected is longer than the 1/8” allowance mark on the small straw or toothpick, as shown in Figure 2 and Figure 3, do not use this screw. The screw length must not bypass the mark.

6. Test each size of the screws provided.

   The correct screws should thread easily into the mounting point and not pull out when tension is applied.

Does your projector have a single mounting point or multiple mounting points?

If it has a single mounting point, proceed to the **“Single Mounting Point Installation”** section on page 14.

If it has multiple mounting points, proceed to the **“Multiple Mounting Point Installation”** section below.

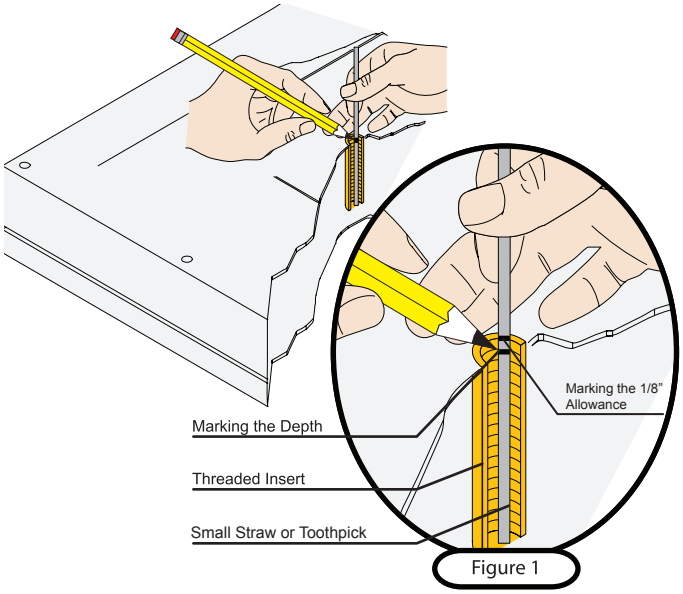


Figure 1

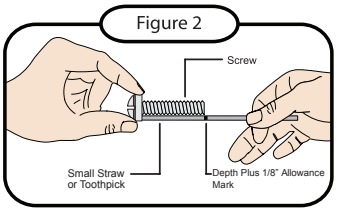


Figure 2

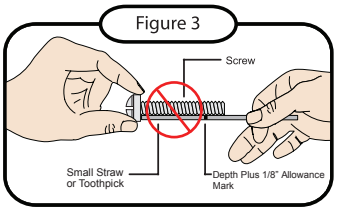
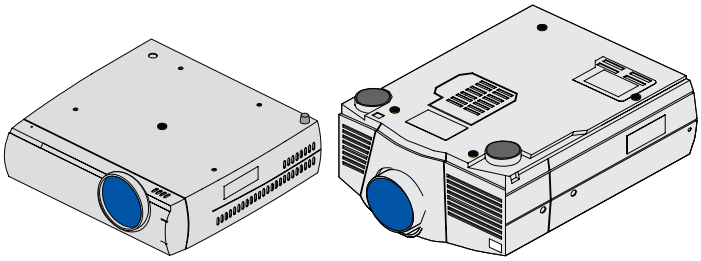


Figure 3



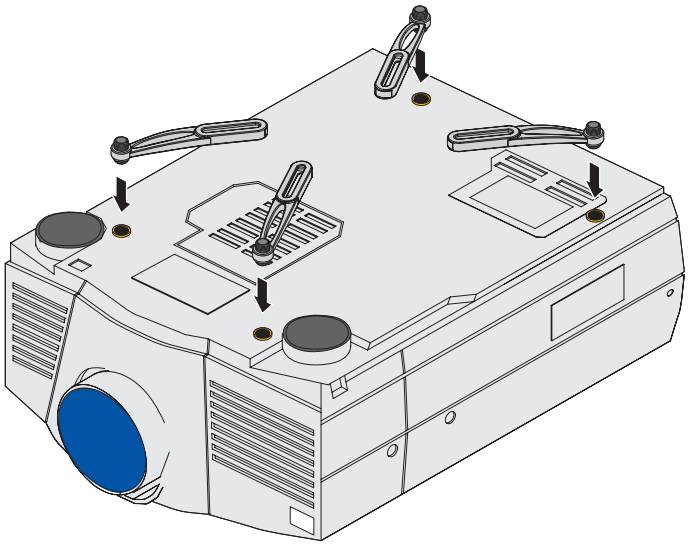
Multiple Mounting Point Installation

Step 1

1. Locate the projector’s mounting points.
2. Position an appropriate number of mounting legs on the projector.

You can use any combination of three (3) or more mounting legs, depending on the number and location of the thread inserts on the projector.

The number and placement of mounting points on projectors varies between projector manufacturers. Refer to the projector’s technical specifications for the number and location of the mounting points.

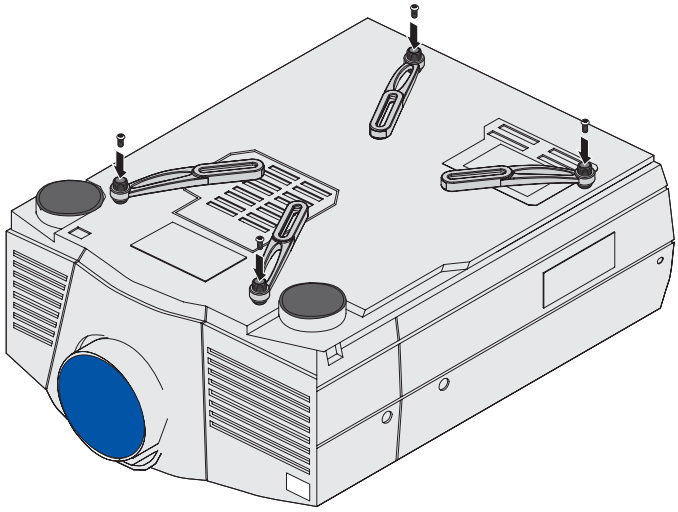


Attaching the Projector Plate (cont'd)

Step 2

Insert the mounting hardware, as determined in **"Selecting the Mounting Hardware"**, through the leveling barrel into the thread insert of the projector.

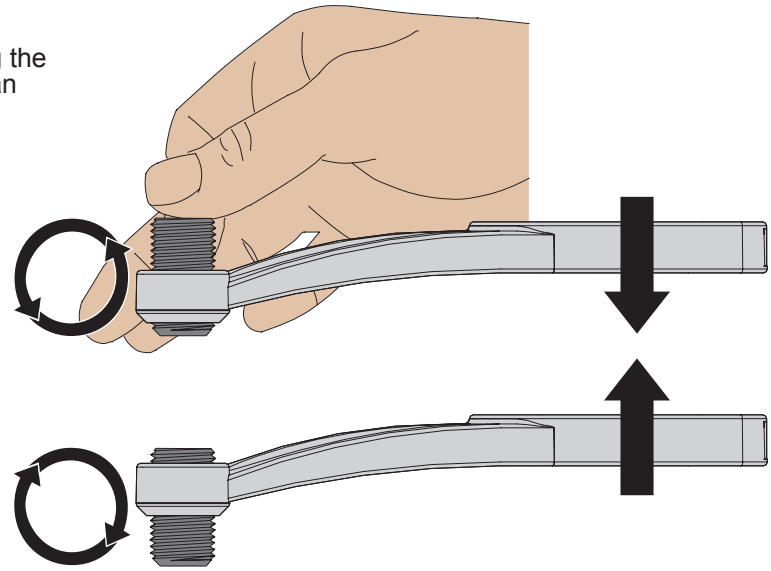
Do not tighten the mounting hardware at this time.



Step 3

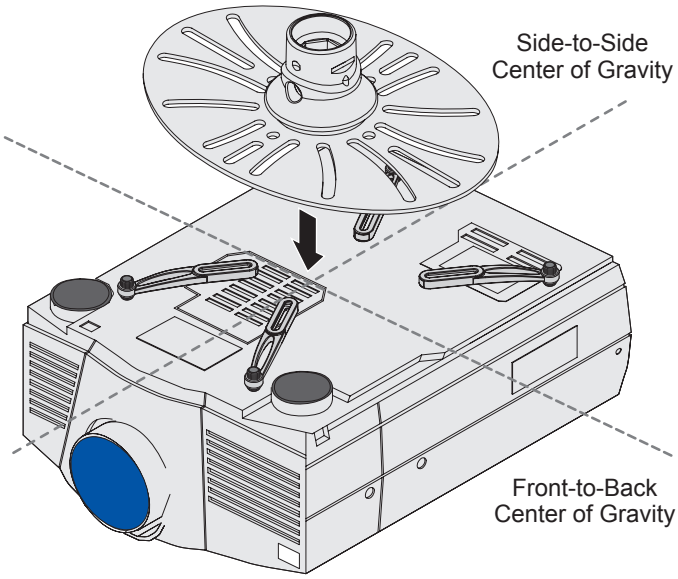
Raise or lower each of the mounting legs, by rotating the leveling barrels, until all of the mounting legs are at an equal height.

- Lower the mounting legs by rotating the leveling barrel counter-clockwise.
- Raise the mounting legs by rotating the leveling barrel clockwise.



Step 4

1. Identify the projector's approximate front-to-back center of gravity. Place your hands on each side of the projector and gently lift it an inch from the surface on which it is resting. Carefully adjust your grip on the projector until it seems balanced from front-to-back. Mentally note the apparent center of gravity.
2. Identify the projector's approximate side-to-side center of gravity. Place your hands on the front and back of the projector and gently lift it an inch from the surface on which it is resting. Carefully adjust your grip on the projector until it seems balanced from side-to-side. Mentally note the apparent center of gravity.
3. Place the SpiroLock™ Projector Plate on top of the mounting legs with the center of the plate as close as possible to the projector's center of gravity.



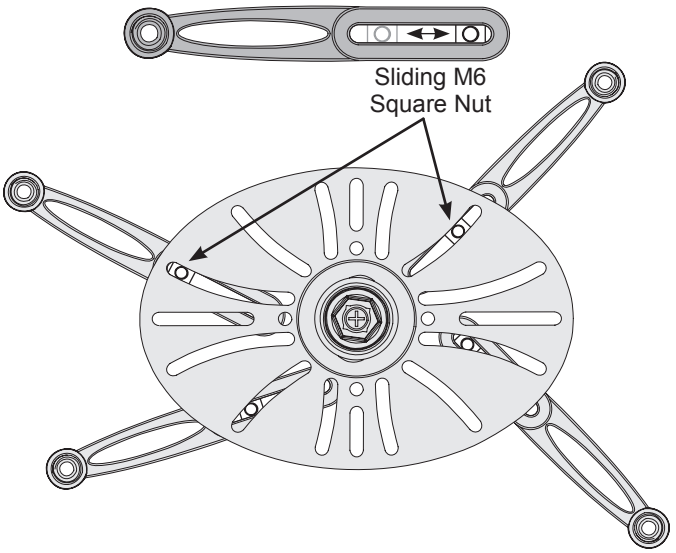
Attaching the Projector Plate (cont'd)

Step 5

❶ Verify that the mounting legs are at an equal height. Return to **Step 3** on page 12 if they are not at an equal height or the SpiroLock™ Projector Plate is not level.

❷ Verify the position of the integrated sliding M6 square nut in the mounting leg relative to a nearby slot on the SpiroLock™ Projector Plate.

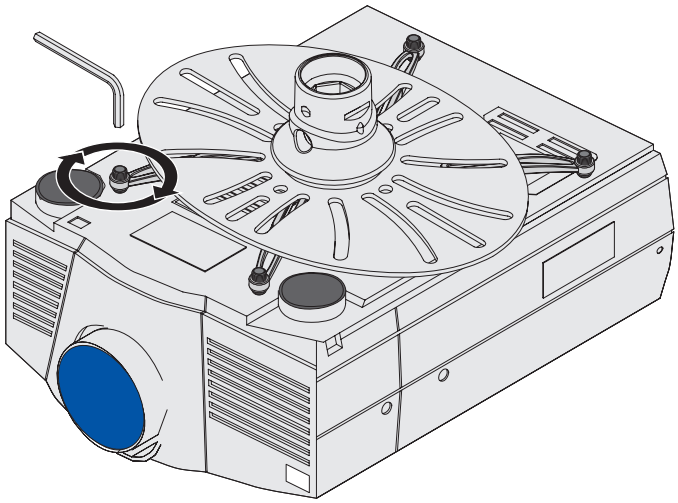
If the M6 square nut is not aligned with any slot, you can use any thin implement, such as a toothpick, to nudge it into alignment.



Step 6

Tighten the mounting screws which secure the mounting legs to the projector.

Do not overtighten the mounting screws.



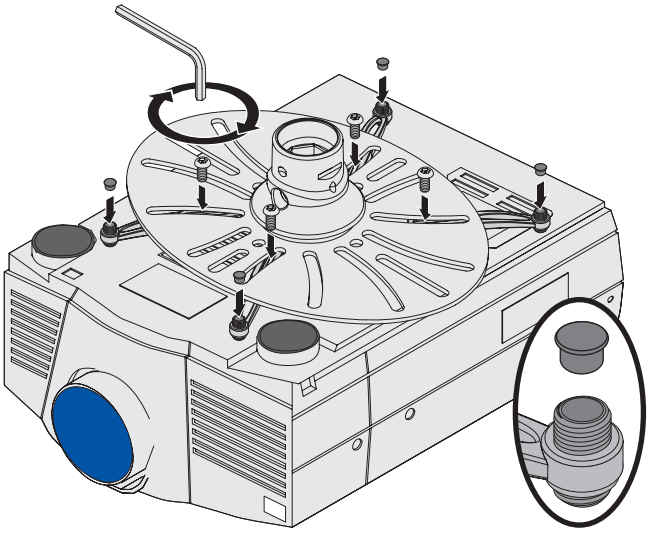
Step 7

❶ Attach the SpiroLock™ Projector Plate to each of the mounting legs by inserting and tightening one (1) M6 x 12mm screw through the SpiroLock™ Projector Plate into the M6 square nut on each of the mounting legs.

Do not overtighten the M6 x 12mm screw.

❷ Insert one (1) barrel cap into the end of each leveling barrel.

Proceed to **"Attaching the Projector to the Mount"** on page 14.

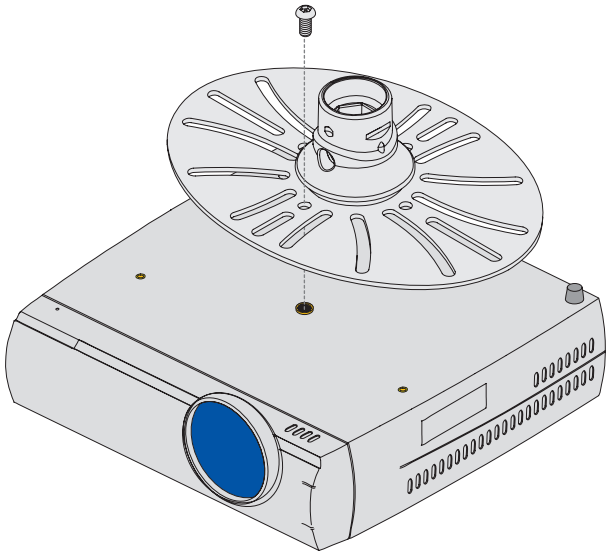


Attaching the Projector Plate (cont'd)

Single Mounting Point Installation

Use a single ¼-20 x 5/16″ screw to attach the SpiroLock™ Projector Plate to the projector if your projector has only one mounting point.

Do not overtighten the ¼-20 x 5/16″ screw.



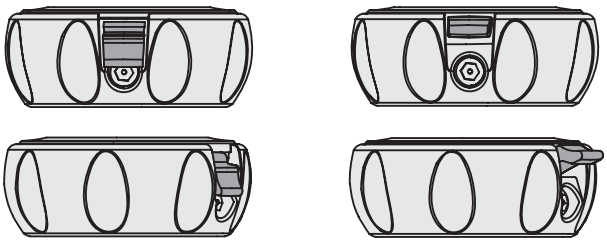
Attaching the Projector to the Mount

Step 1

If your projector is heavy and/or bulky, two people may be required to safely attach the projector to the SpiroLock™ Ceiling Plate or NPT pipe.

If your projector is to be mounted higher than shoulder height, you may need to use one or more ladders to safely attach the projector to the SpiroLock™ Ceiling Plate or NPT pipe.

STOP Verify that the locking tab on the SpiroLock™ collar assembly is in the raised position. If the locking tab is in the lowered position, lift the locking tab and rotate the SpiroLock™ collar assembly until it retains the locking tab in the raised position.



Locking Tab Lowered Position

Locking Tab Raised Position

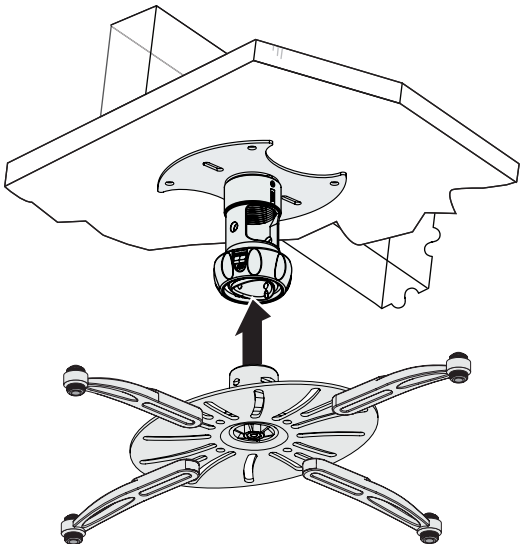
Step 2

1. Raise the projector with the SpiroLock™ Projector Plate securely attached to the SpiroLock™ Ceiling Plate or NPT pipe.
2. Insert the spindle into the SpiroLock™ collar assembly.
3. Press upward and rotate the projector as shown until the SpiroLock™ collar assembly locks into place. The SpiroLock™ collar assembly will rotate and produce an audible "click".

? Did the SpiroLock™ collar assembly lock into place?

If **Yes**, proceed to **Step 3**.

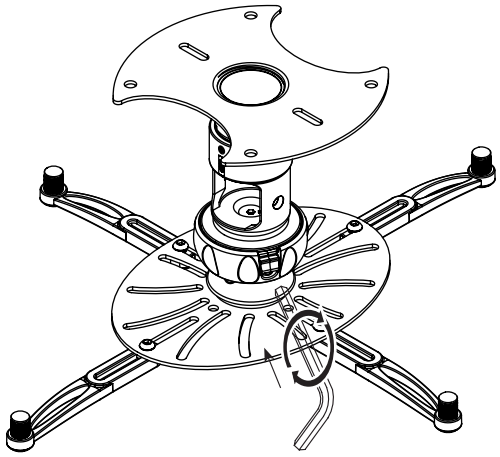
STOP If **No**, verify that the locking tab on the SpiroLock™ collar assembly is in the lowered position and that there was an audible "click". If the locking tab is in the raised position or you did not hear a "click", lower the projector and return to **Step 1**.



Attaching the Projector to the Mount (cont'd)

Step 3

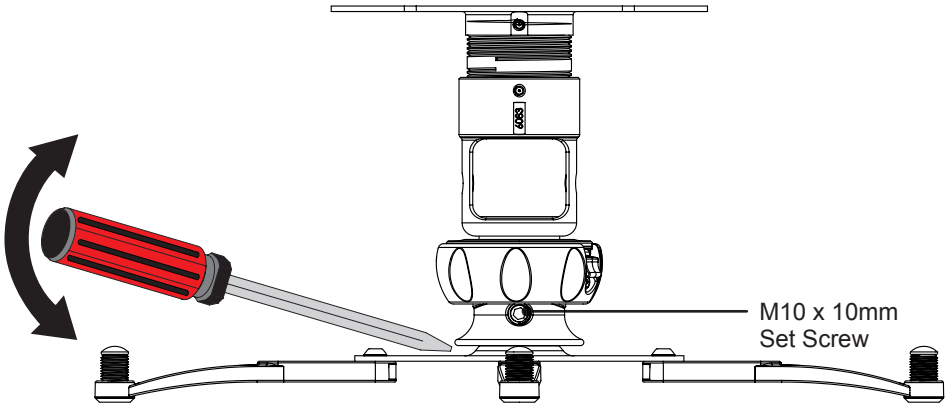
Tighten the M4 x 12mm Lock-It™ screw in the SpiroLock™ collar assembly.



Alignment & Fine-Tuning

1. Loosen the two (2) M10 x 10mm set screws to fine-tune the projector alignment.
2. Adjust the pitch, roll, and yaw of the projector up to 6° by firmly grasping the projector with both hands and slowly tilting it forward, backward, and side-to-side.
3. Make precise adjustments by placing the tip of a flat-blade screwdriver between the projector plate and the lip of the spindle, then using gentle leverage to make any adjustments.
4. Tighten the two set screws in the spindle to lock in your adjustments.

⚠ Do not overtighten the set screws.



Removing the Projector

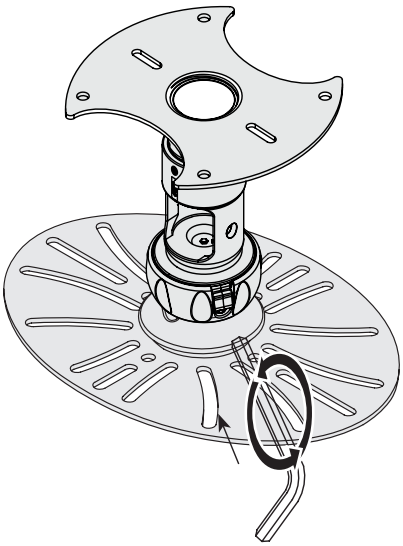
The SpiroLock™ projector mount can be removed quickly if the projector needs service.

If the projector is heavy and/or bulky, two people may be required to safely remove the projector from the SpiroLock™ Ceiling Plate or NPT pipe.

If the projector is mounted higher than shoulder height, you may need to use one or more ladders to safely remove the projector from the SpiroLock™ Ceiling Plate or NPT pipe.

Step 1

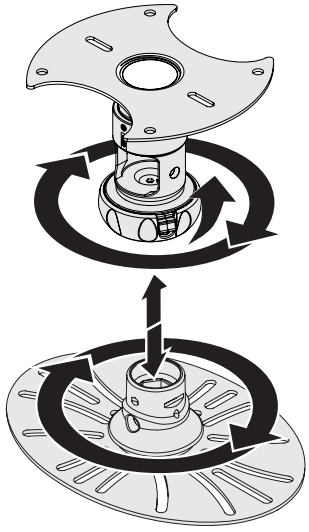
Use the M5 security Allen wrench to loosen the M4 x 12mm Lock-It™ screw.



Step 2

1. Place one hand under the projector to support it.
2. Lift the locking tab.
3. While lifting the locking tab, rotate the SpiroLock™ collar assembly 15 degrees clockwise until you hear an audible “click”.

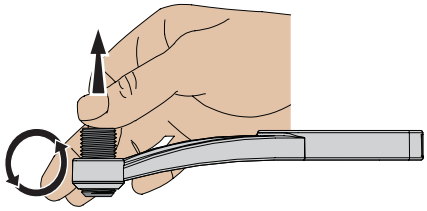
   You may find it easier to lift the locking tab with the thumb of the same hand which rotates the SpiroLock™ collar assembly.
4. Use both hands to rotate the projector plate as shown to separate it from the SpiroLock™ collar assembly.
5. Place the projector on a soft, flat surface and disassemble the mounting legs from the projector, if neccessary.



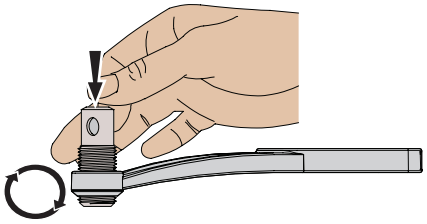
Installing the Lock-It™ Security Barrel

Install the security barrel to help lock the projector plate to the projector:

1. Determine which leveling barrel will be removed.
2. Remove the mounting screw.
3. Remove the leveling barrel by turning the leveling barrel counter-clockwise.
4. Thread in the security barrel clockwise.
5. Insert and tighten the mounting screw.
6. Attach a theft deterrent device (PCB-CSL1 or padlock) through the hole that is on the security barrel.



Counter-Clockwise



Clockwise

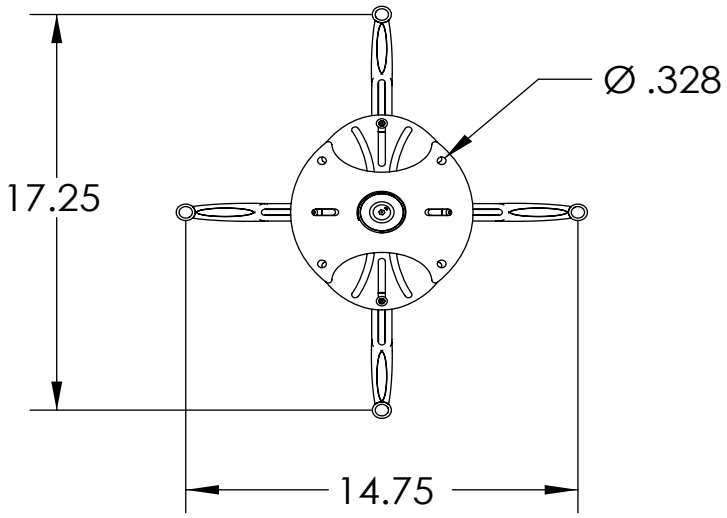
Do not overtighten the mounting screw.

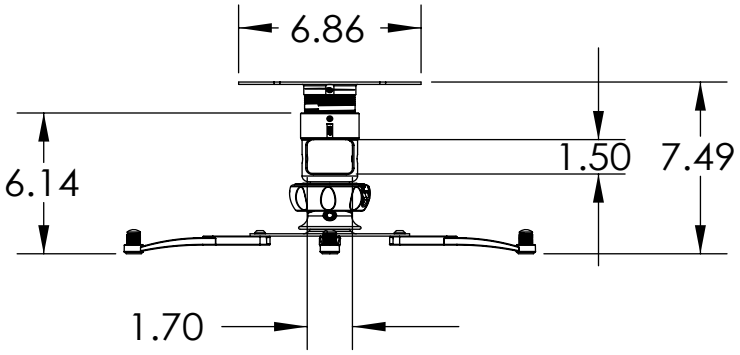
Optional security configurations (not supplied) include:

- PCB-CSL1
- Padlock (Combination or Keyed)

Technical Specifications

All measurements are in inches.





Warranty

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LIMITED LIFETIME WARRANTY

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Premier Mounts
Attn: Warranty Claim
3130 East Miraloma Ave.
Anaheim, CA 92806

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